

EV0539439114S

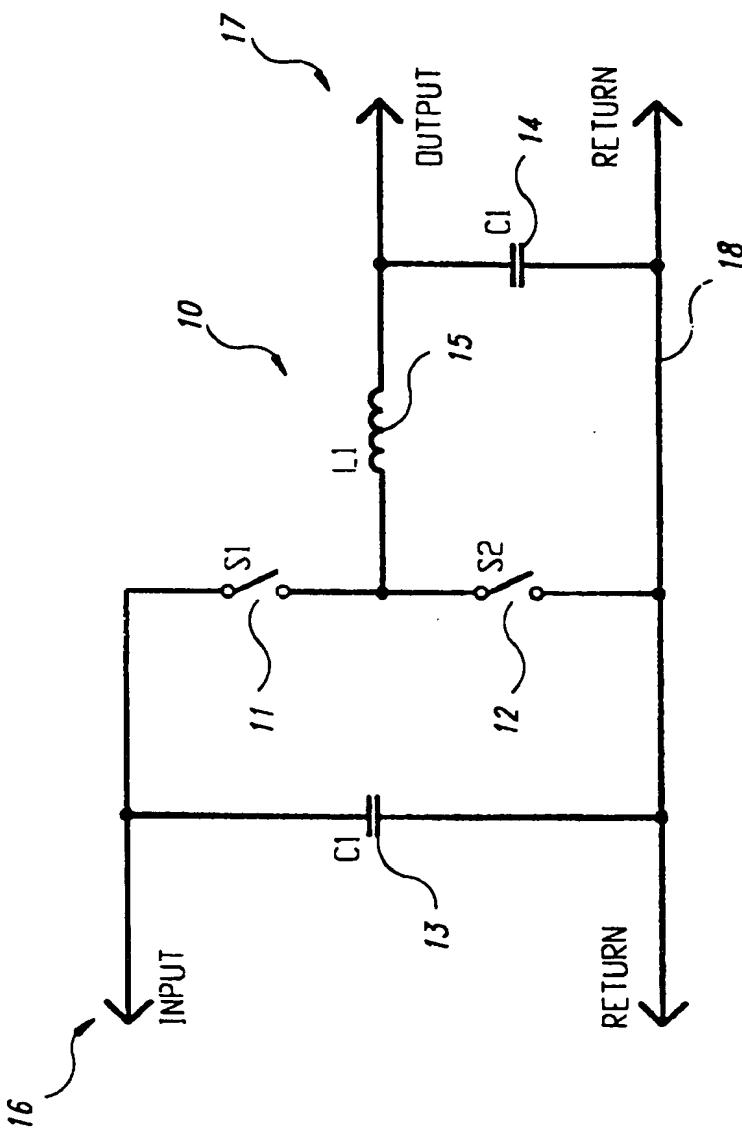


Fig. 1 (PRIOR ART)

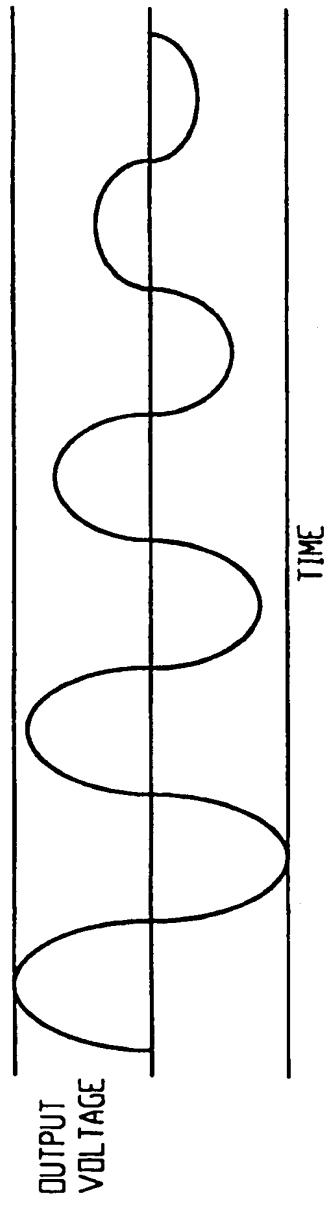


Fig. 3

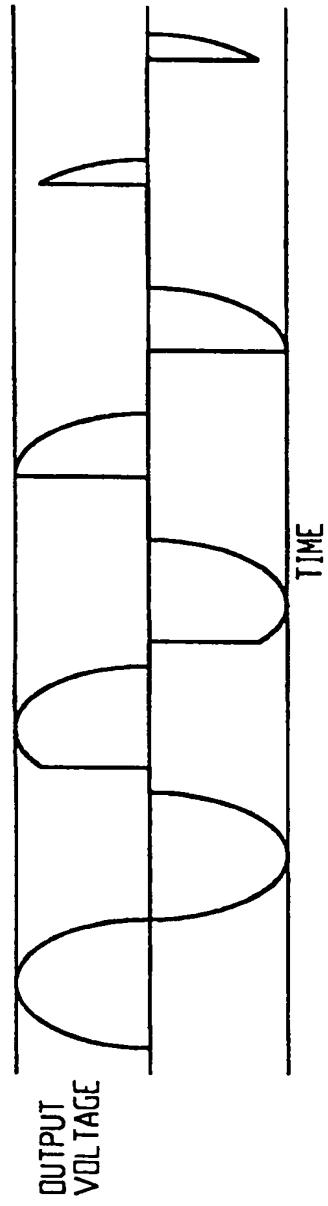


Fig. 2

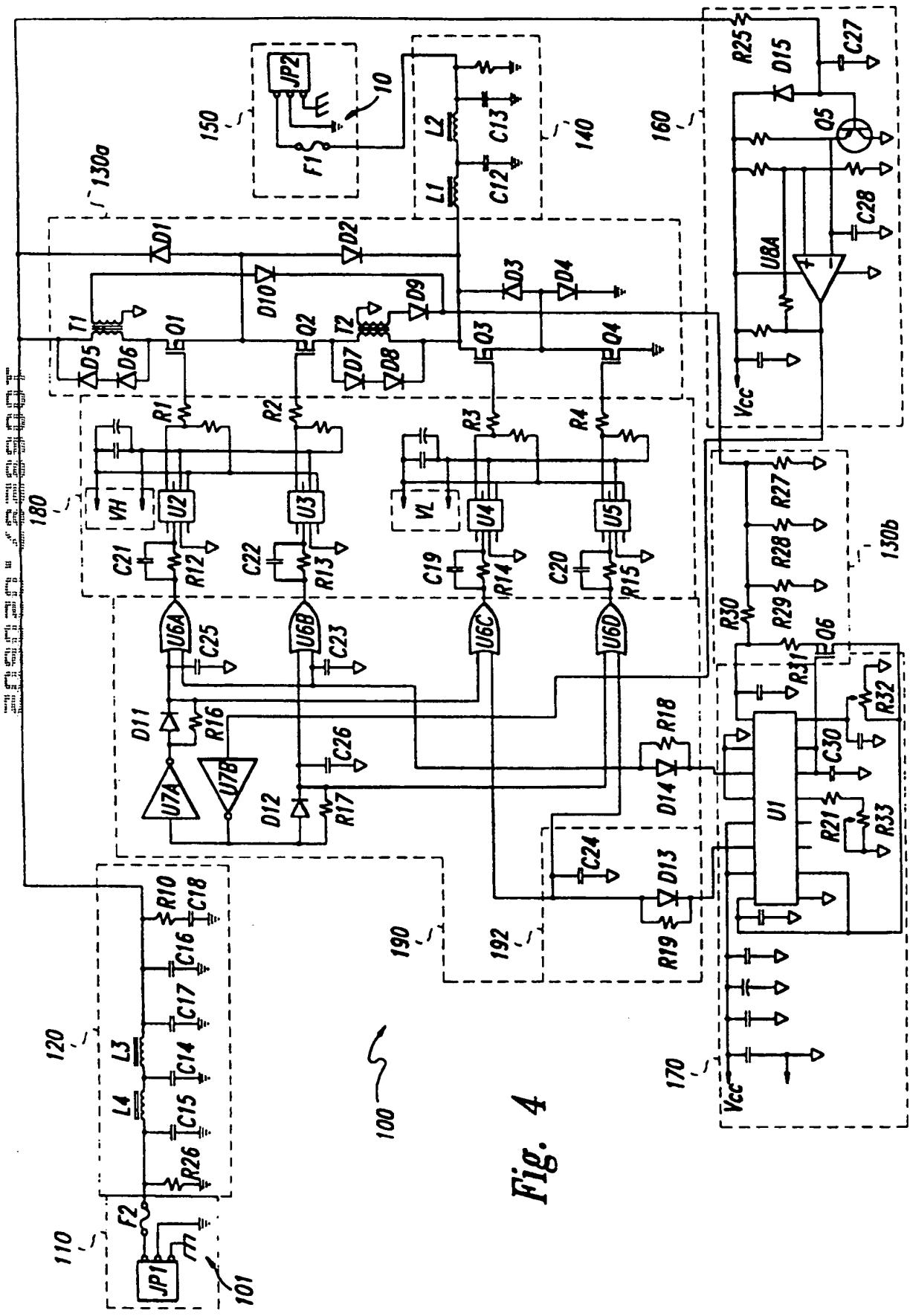


Fig. 4

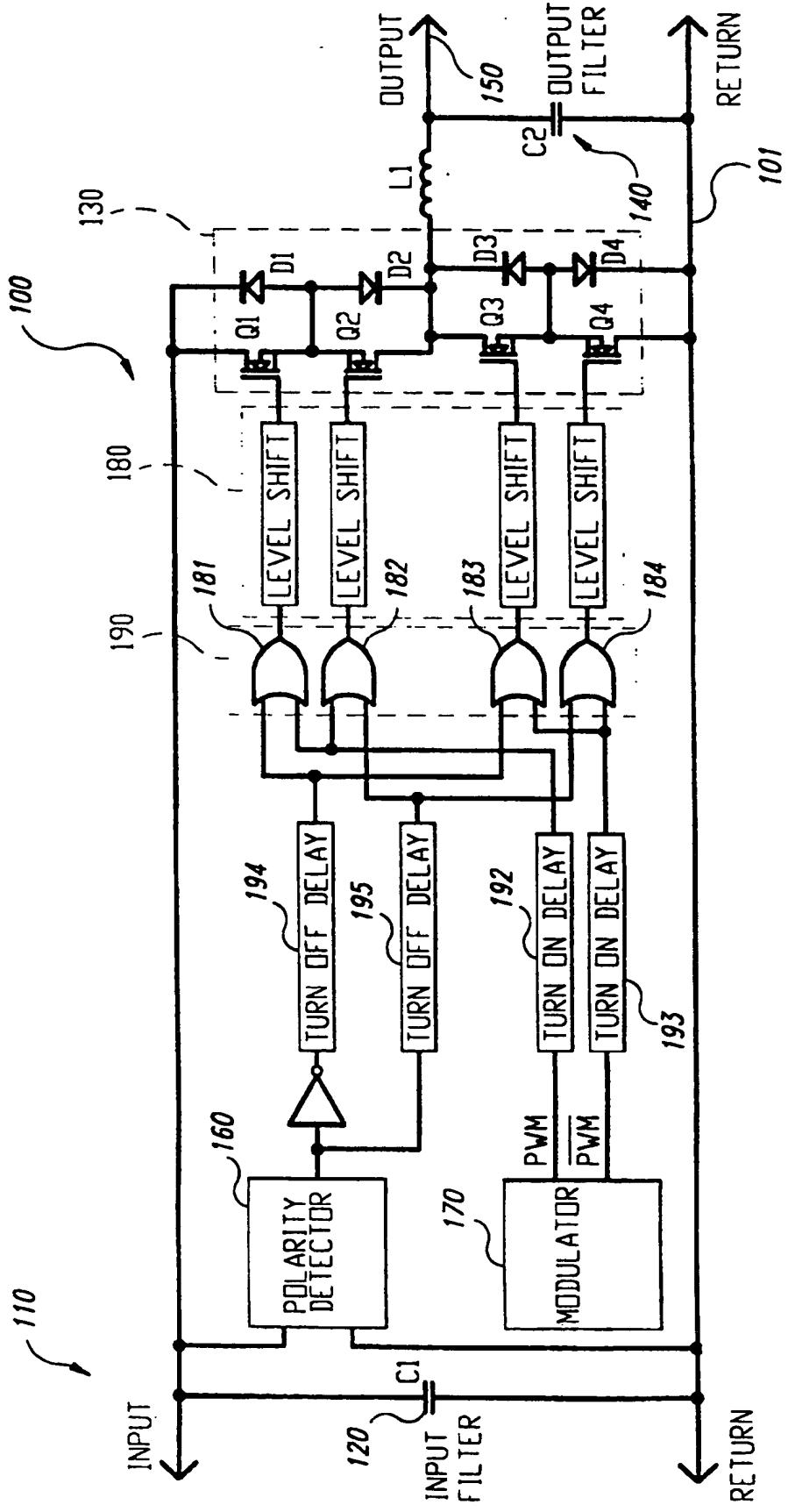


Fig. 5

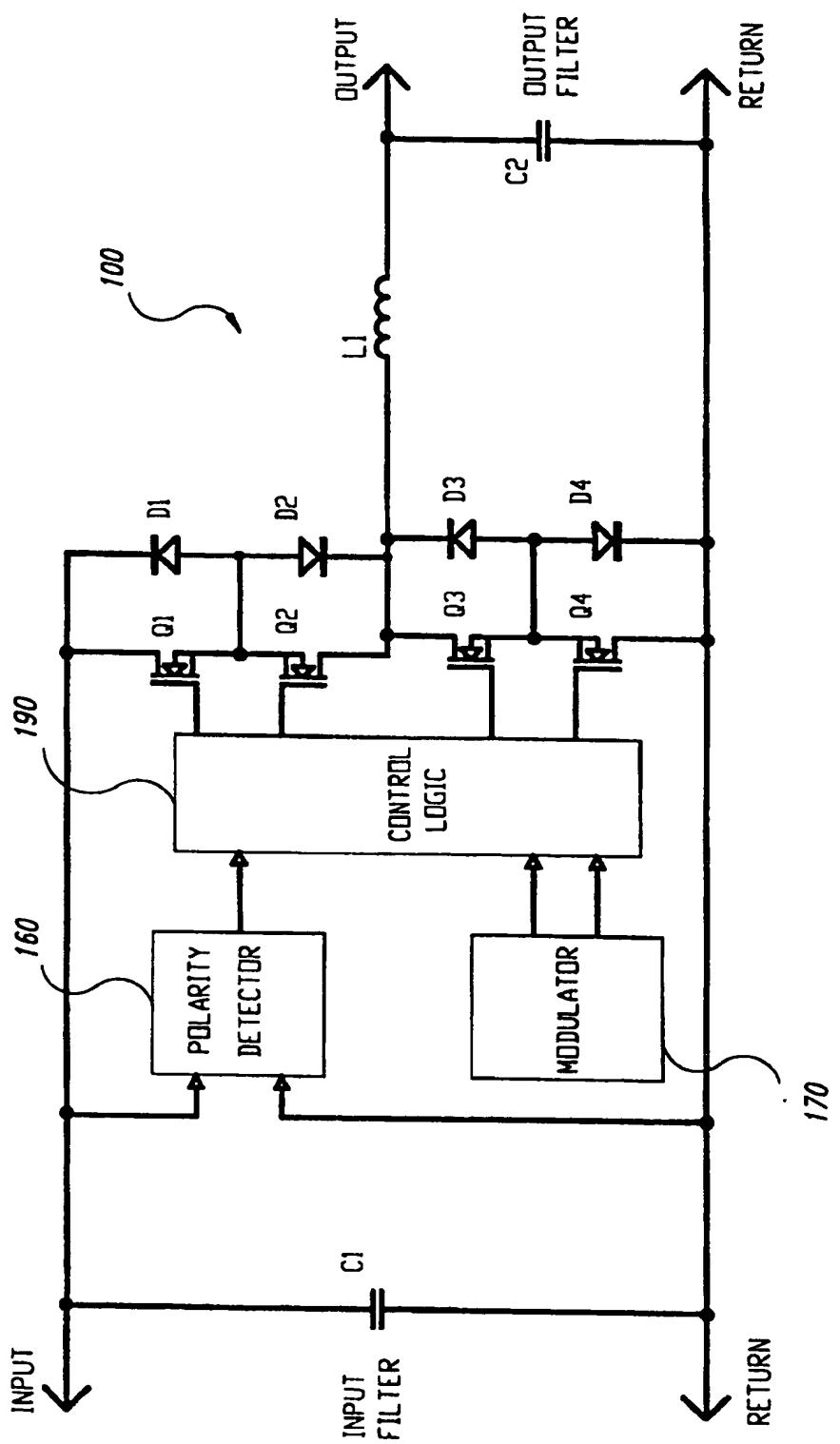


Fig. 6A

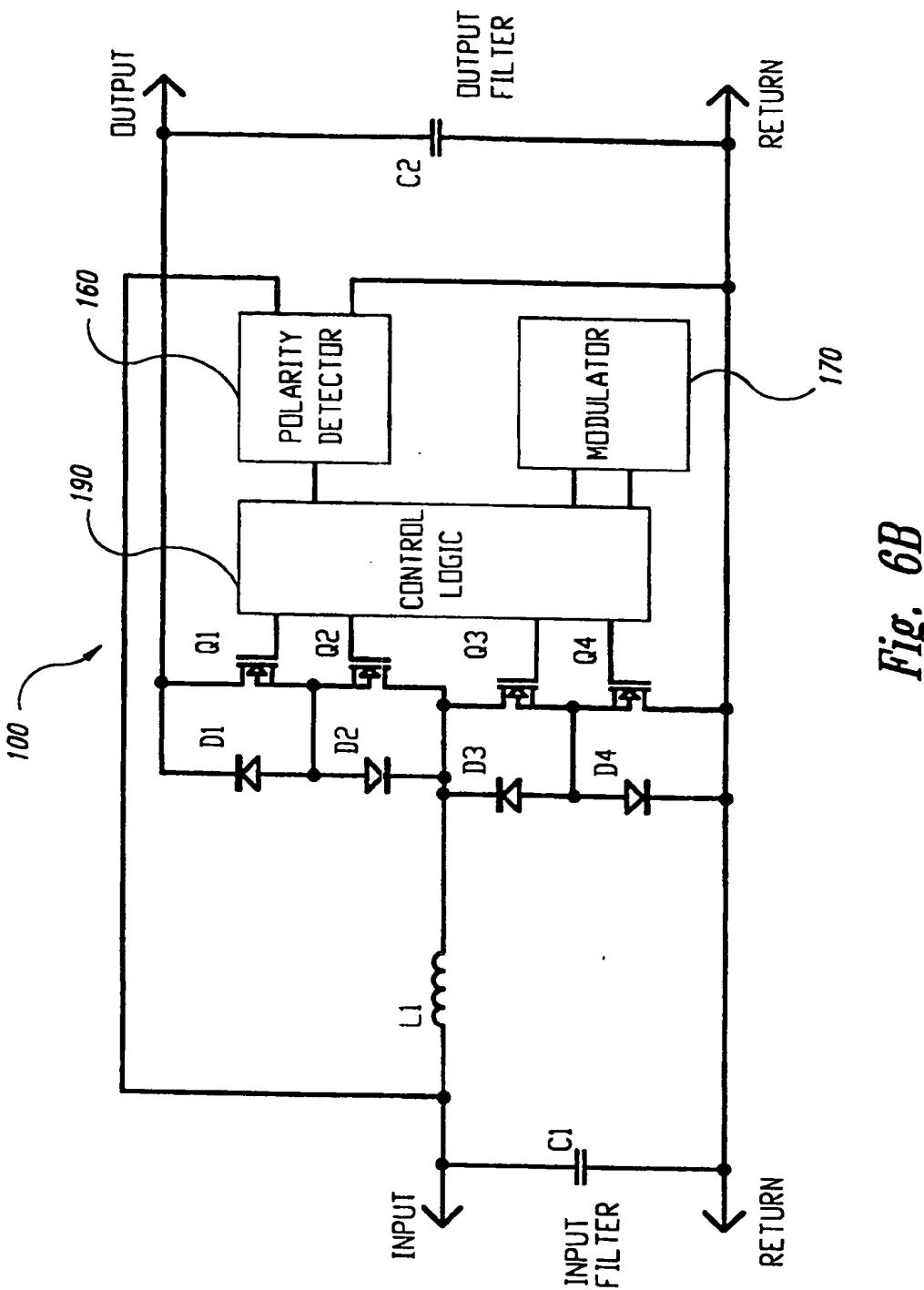


Fig. 6B

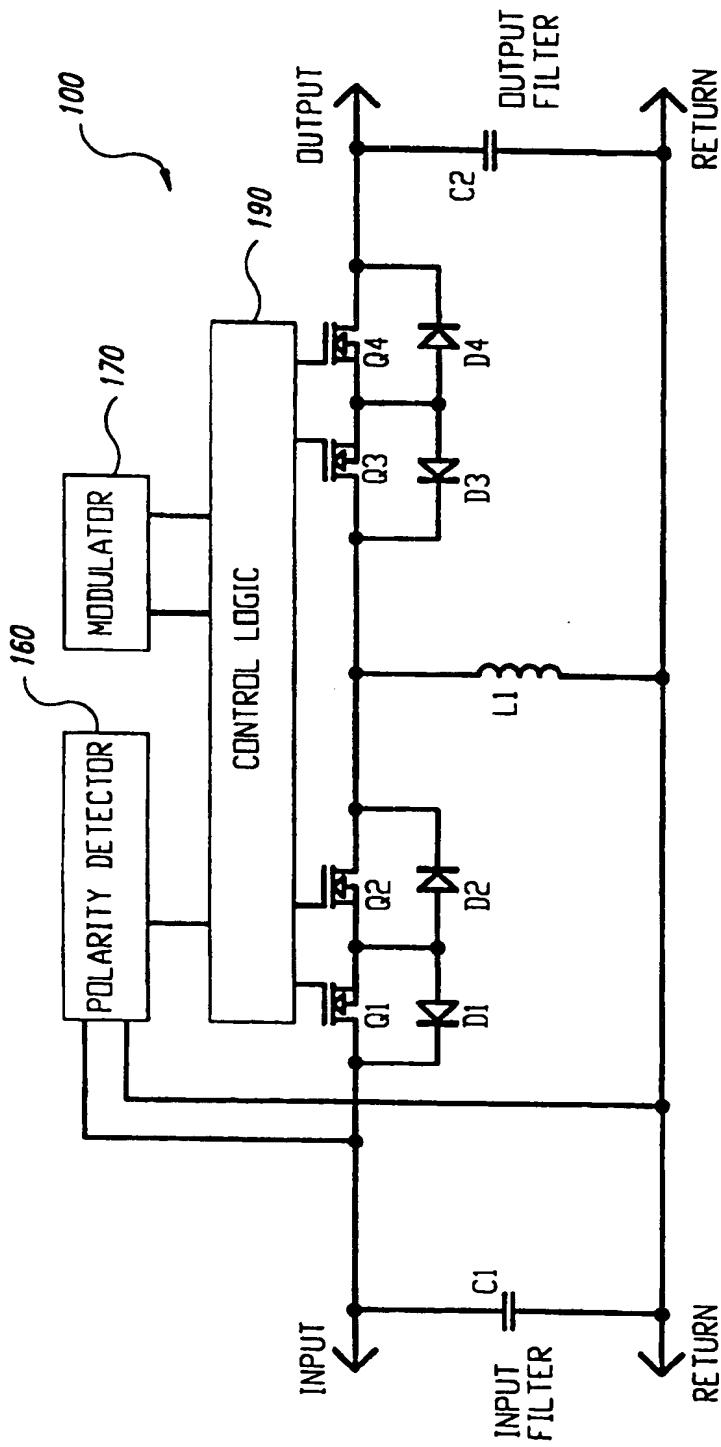


Fig. 6C

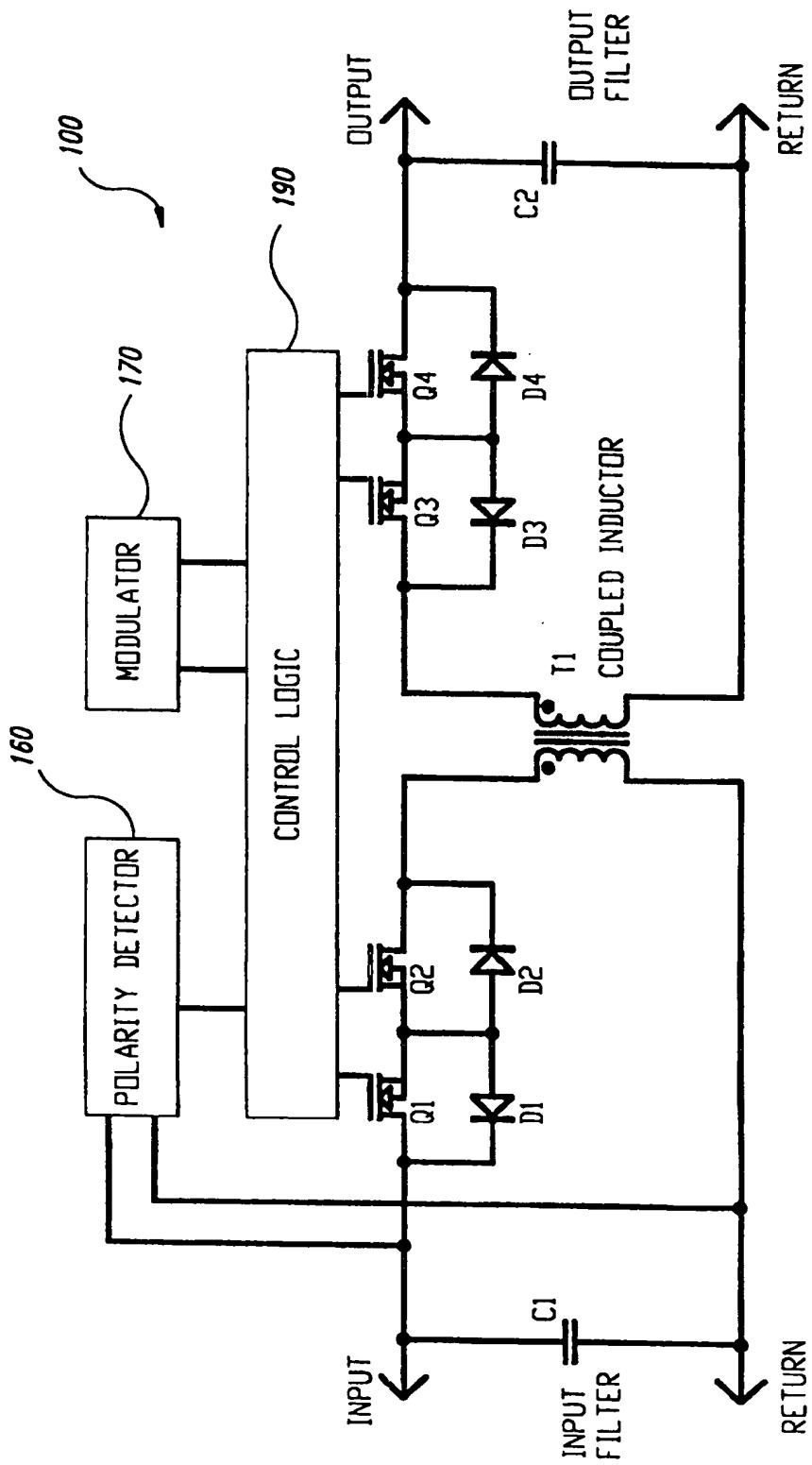
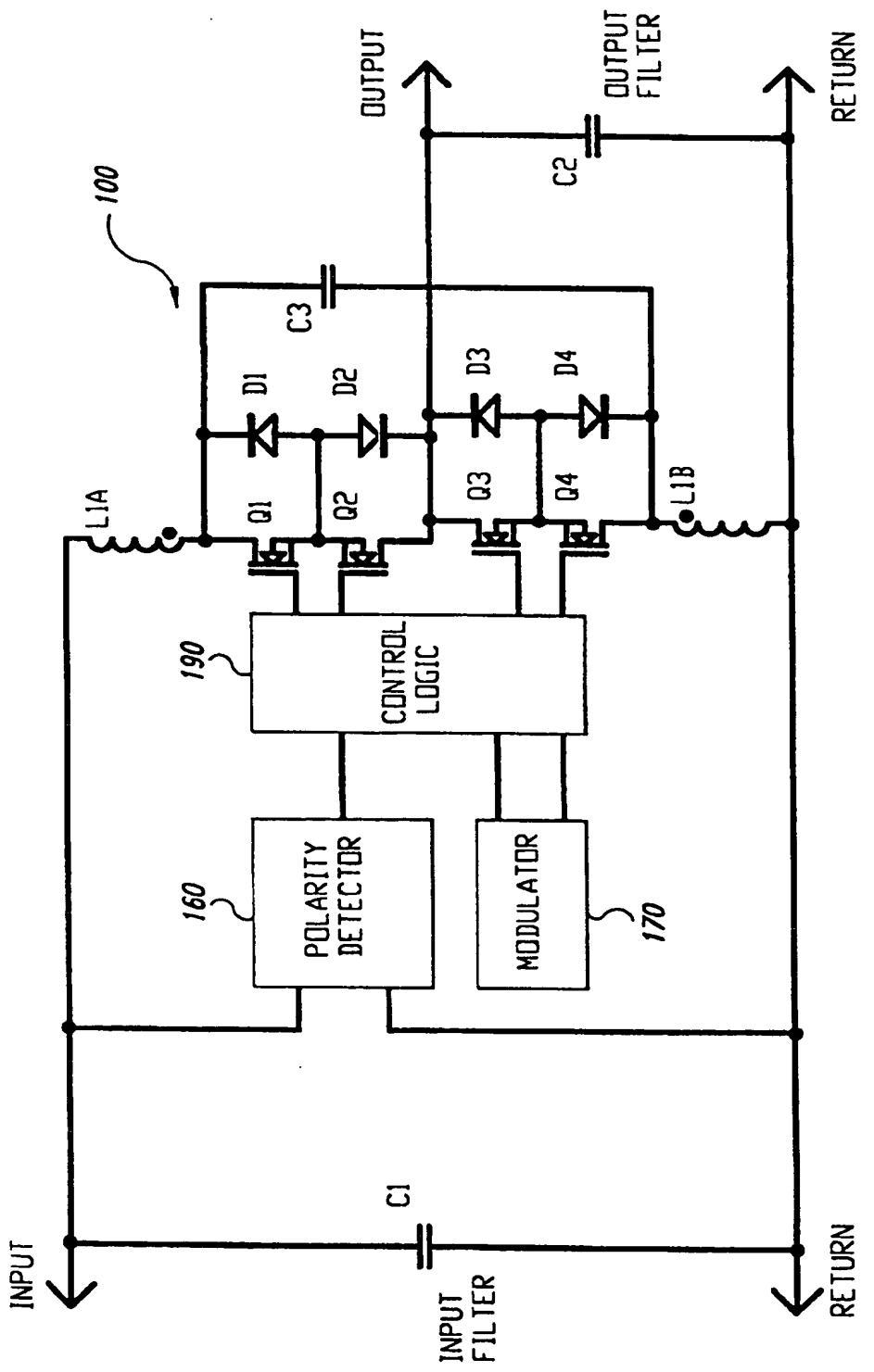


Fig. 6D



*Fig. 7A*

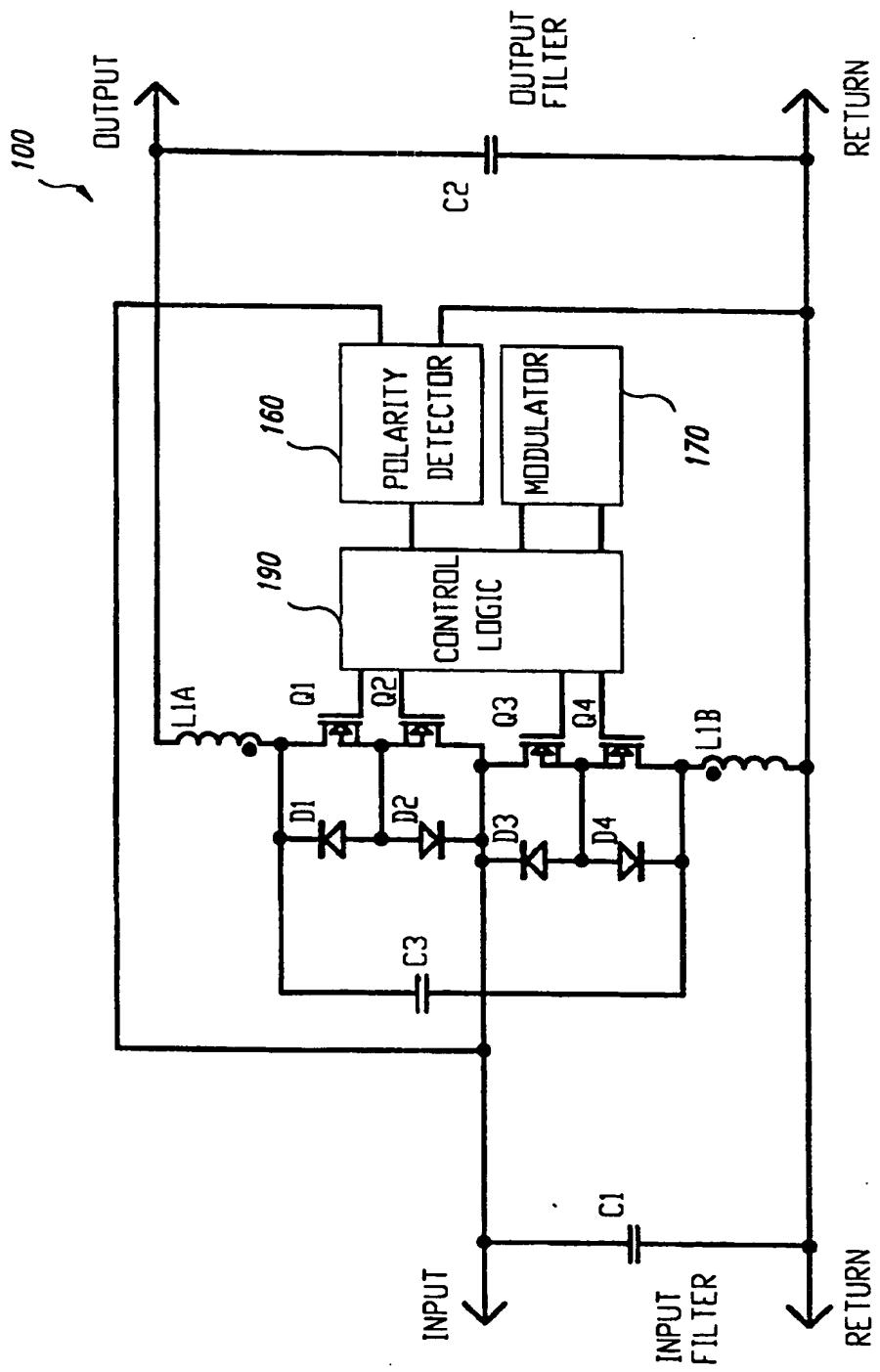
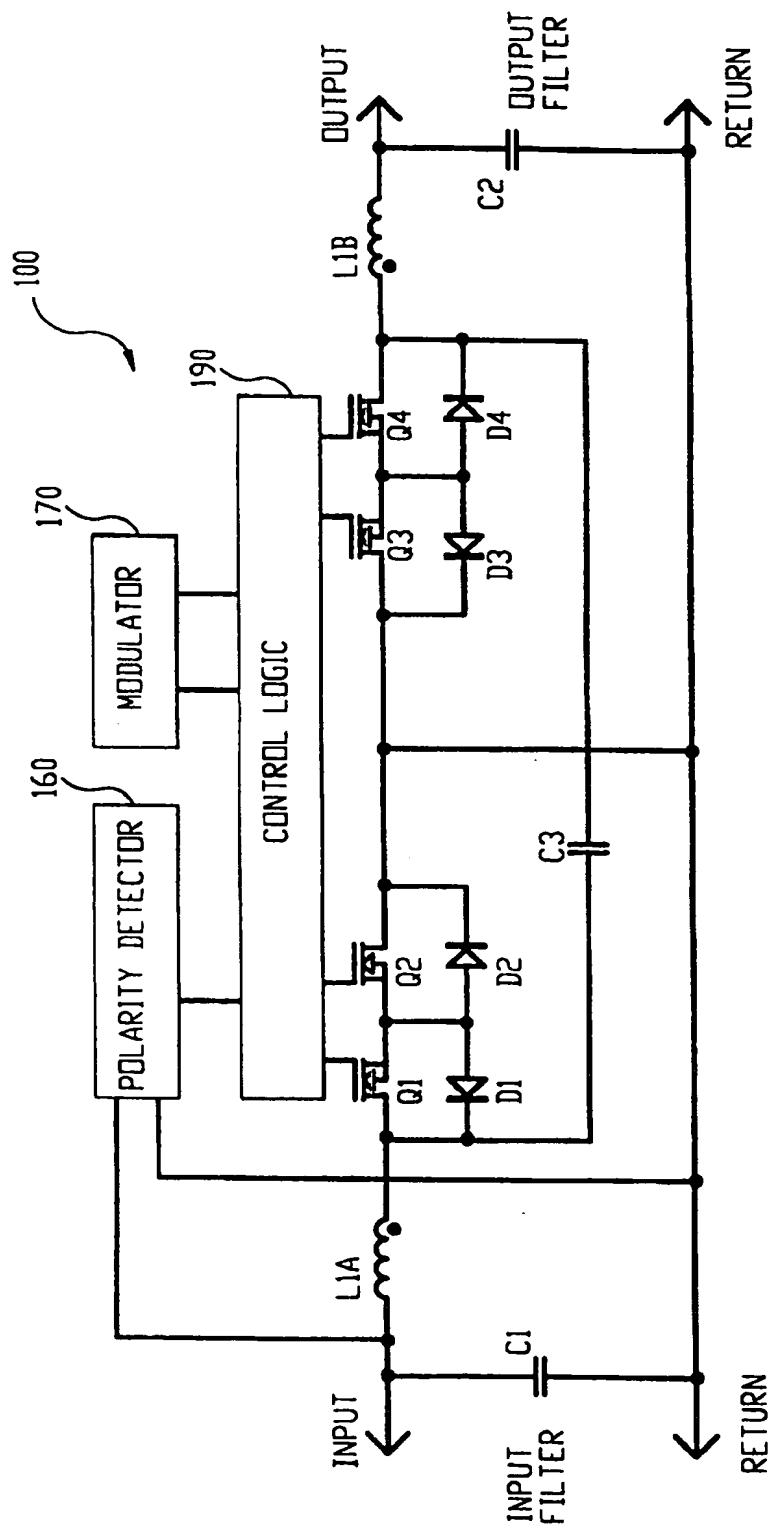


Fig. 7B



*Fig. 7C*

100  
160  
170  
190  
LIB  
C2  
C1  
T1  
D1  
D2  
C3  
Q1  
Q2  
D3  
D4  
C4  
Q3  
Q4  
LIA  
INPUT FILTER  
RETURN

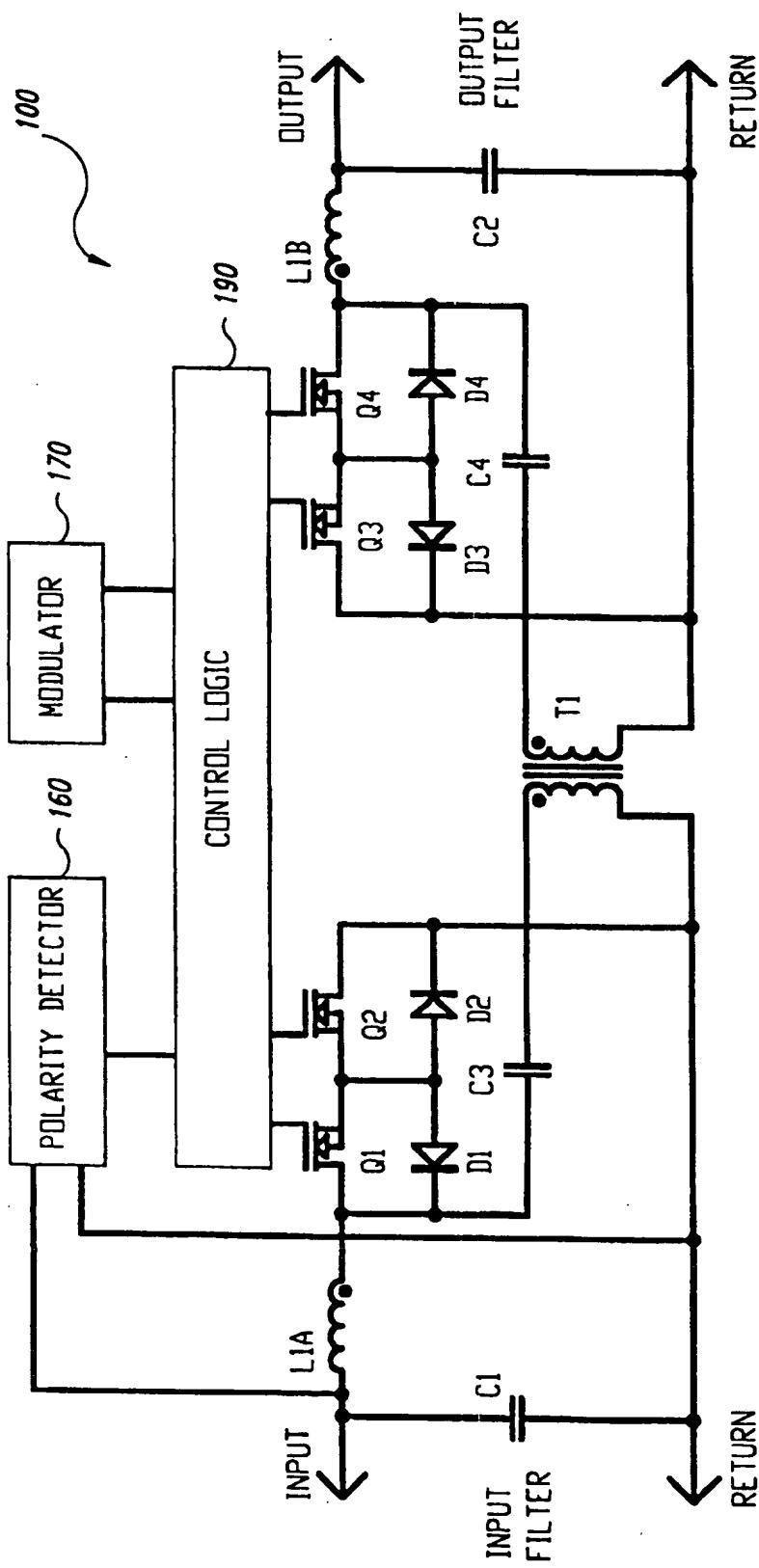


Fig. 7D

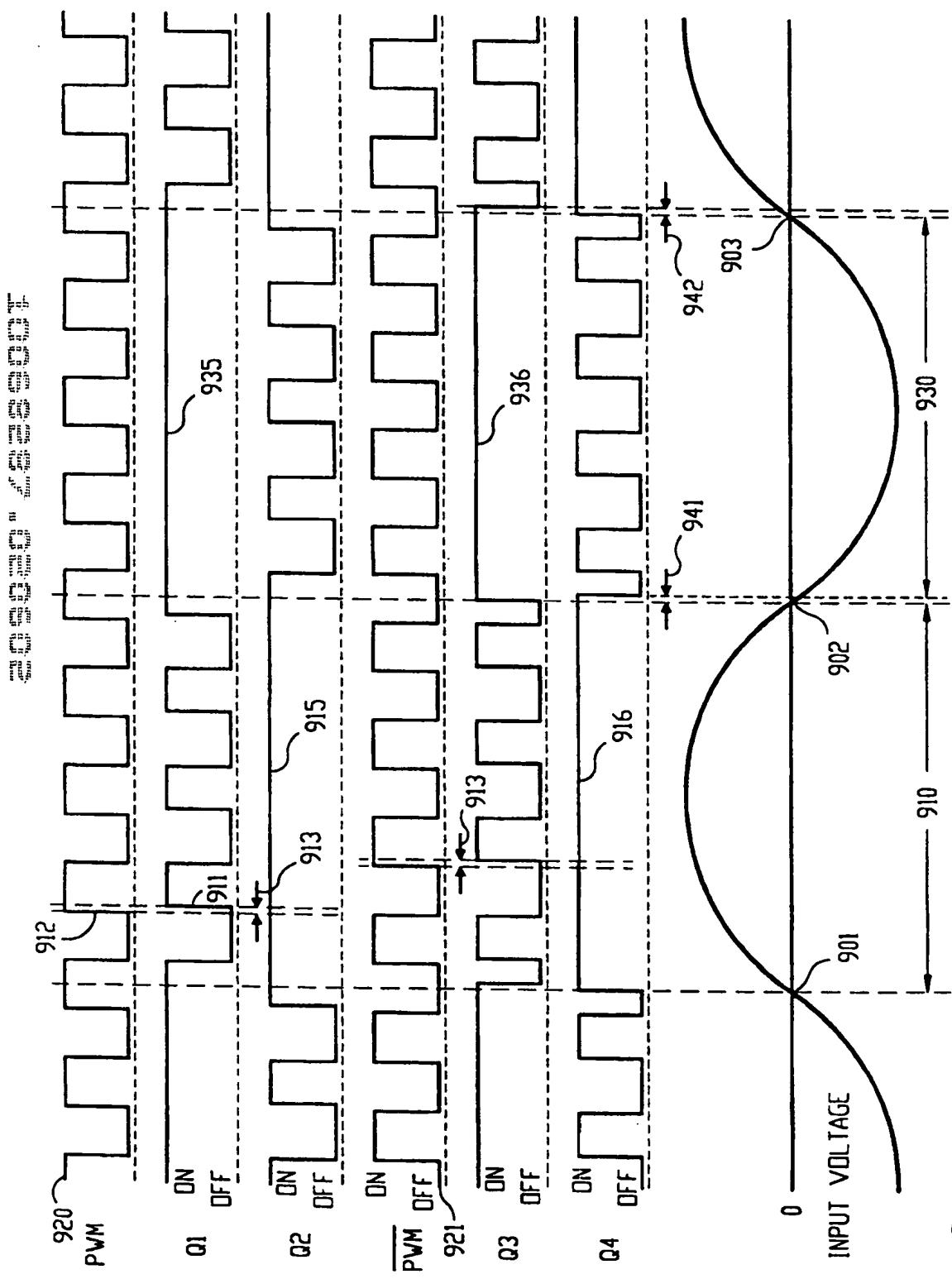
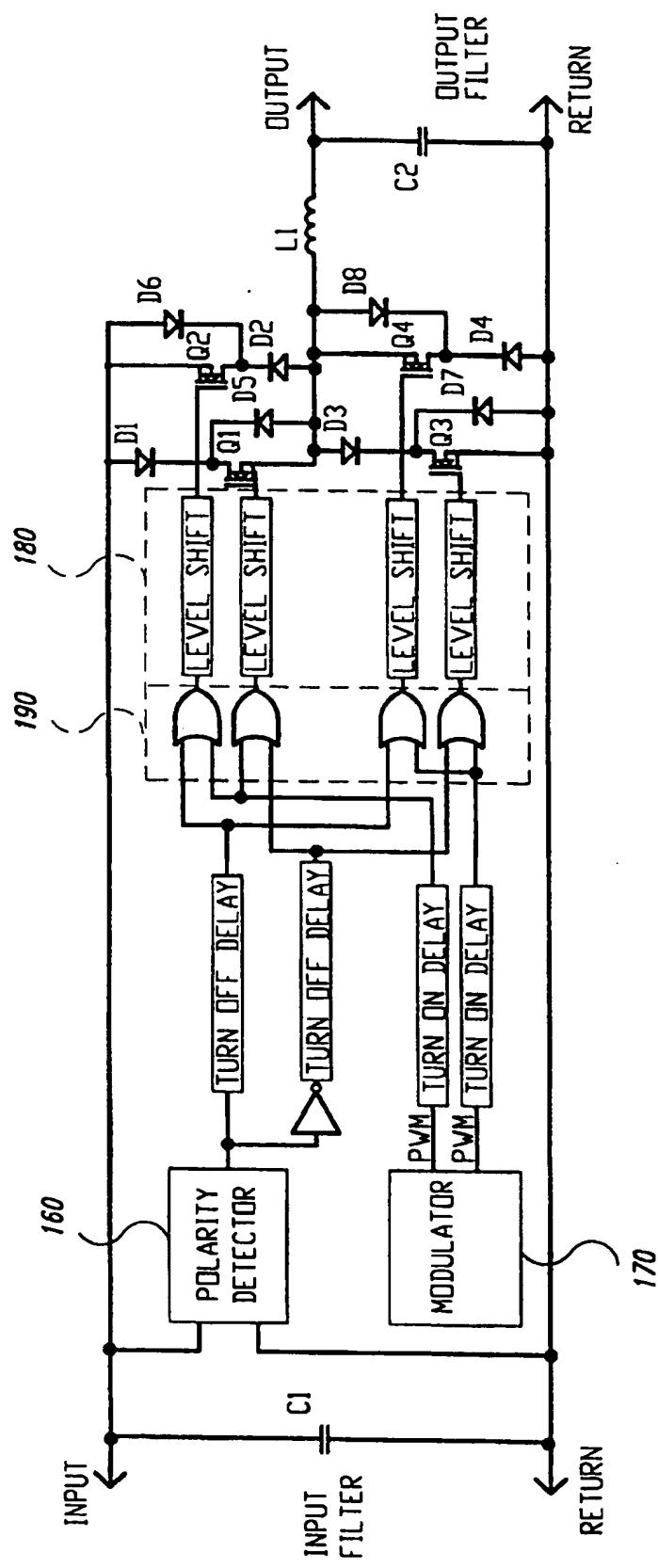


Fig. 8



*Fig. 9*

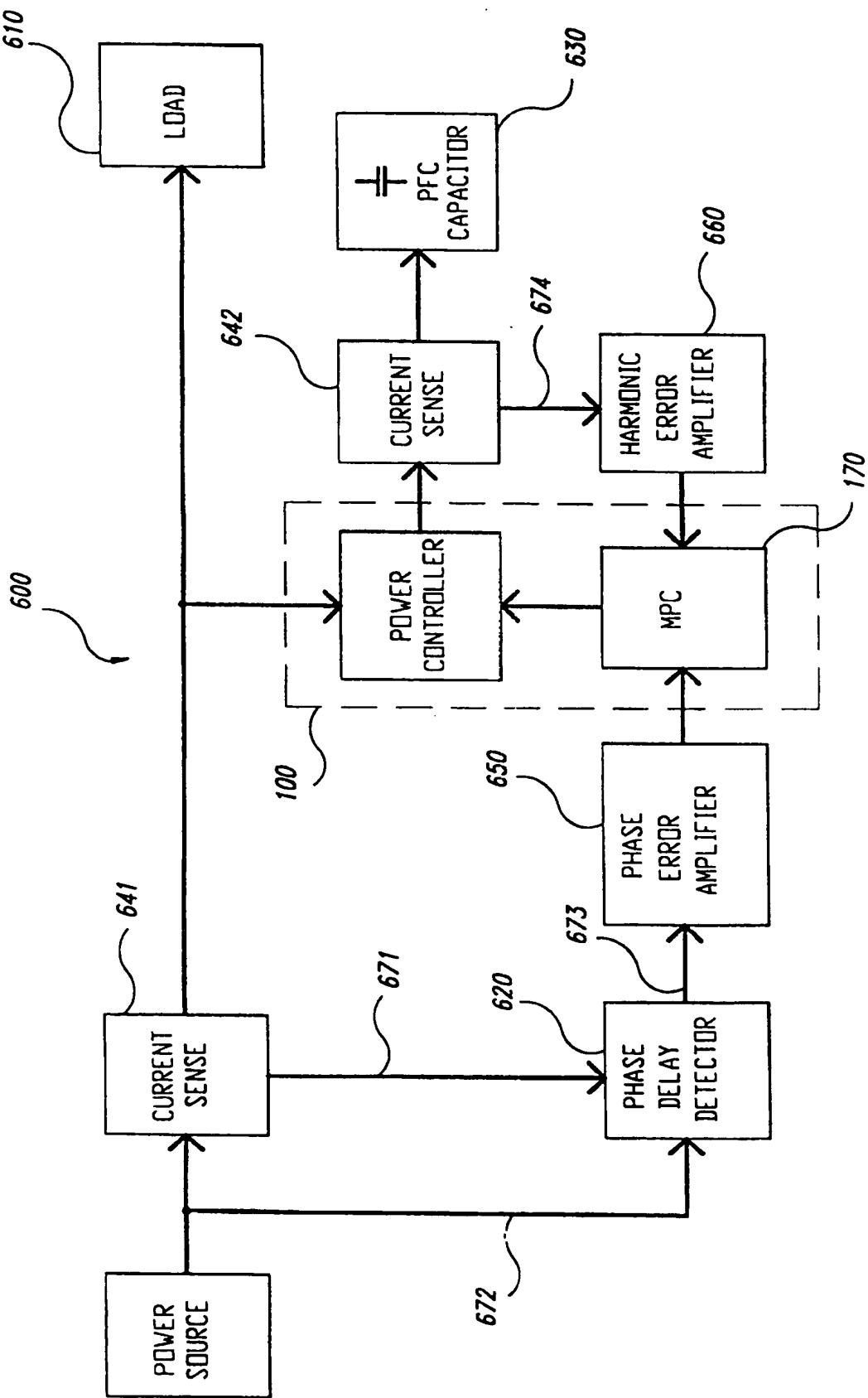
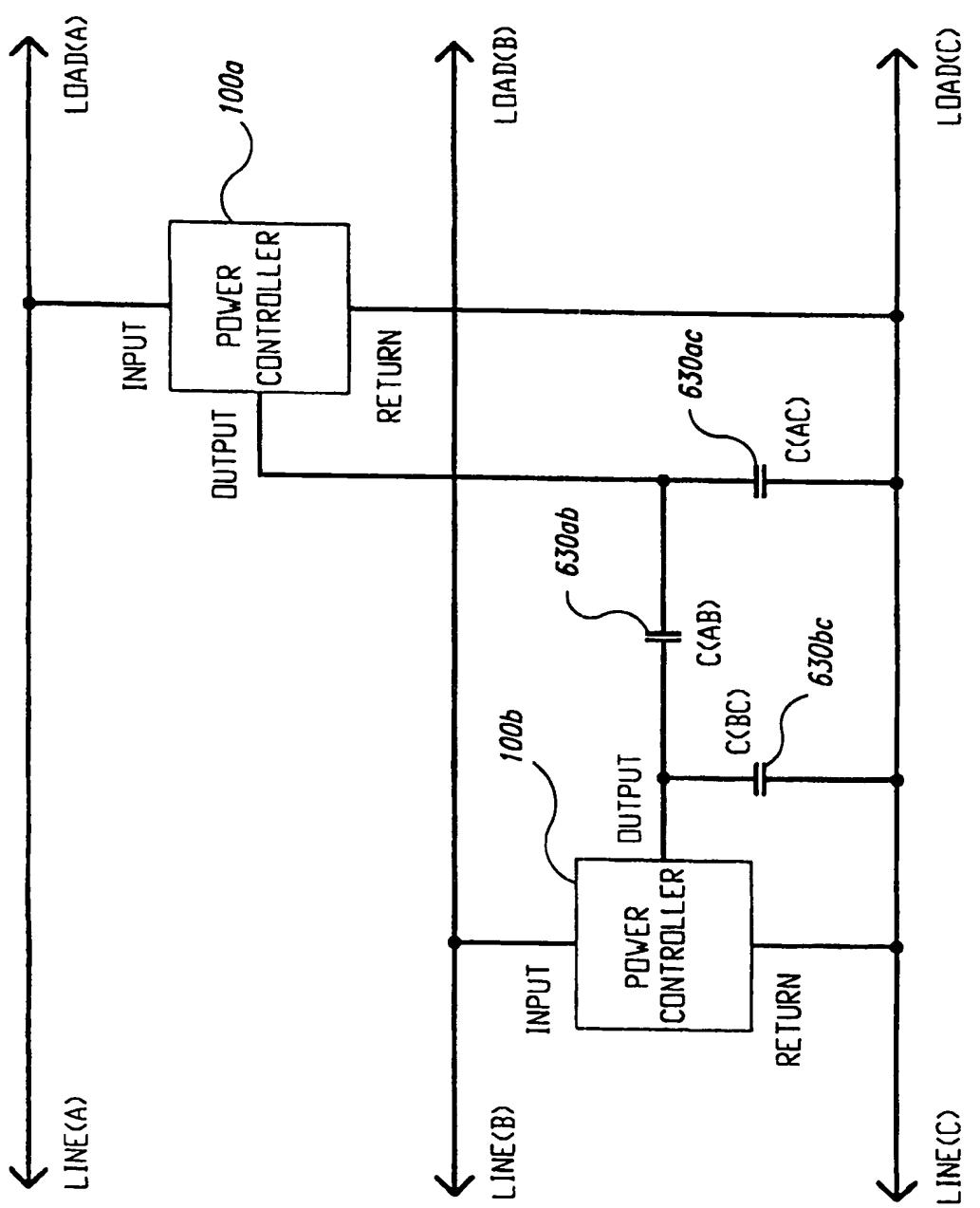
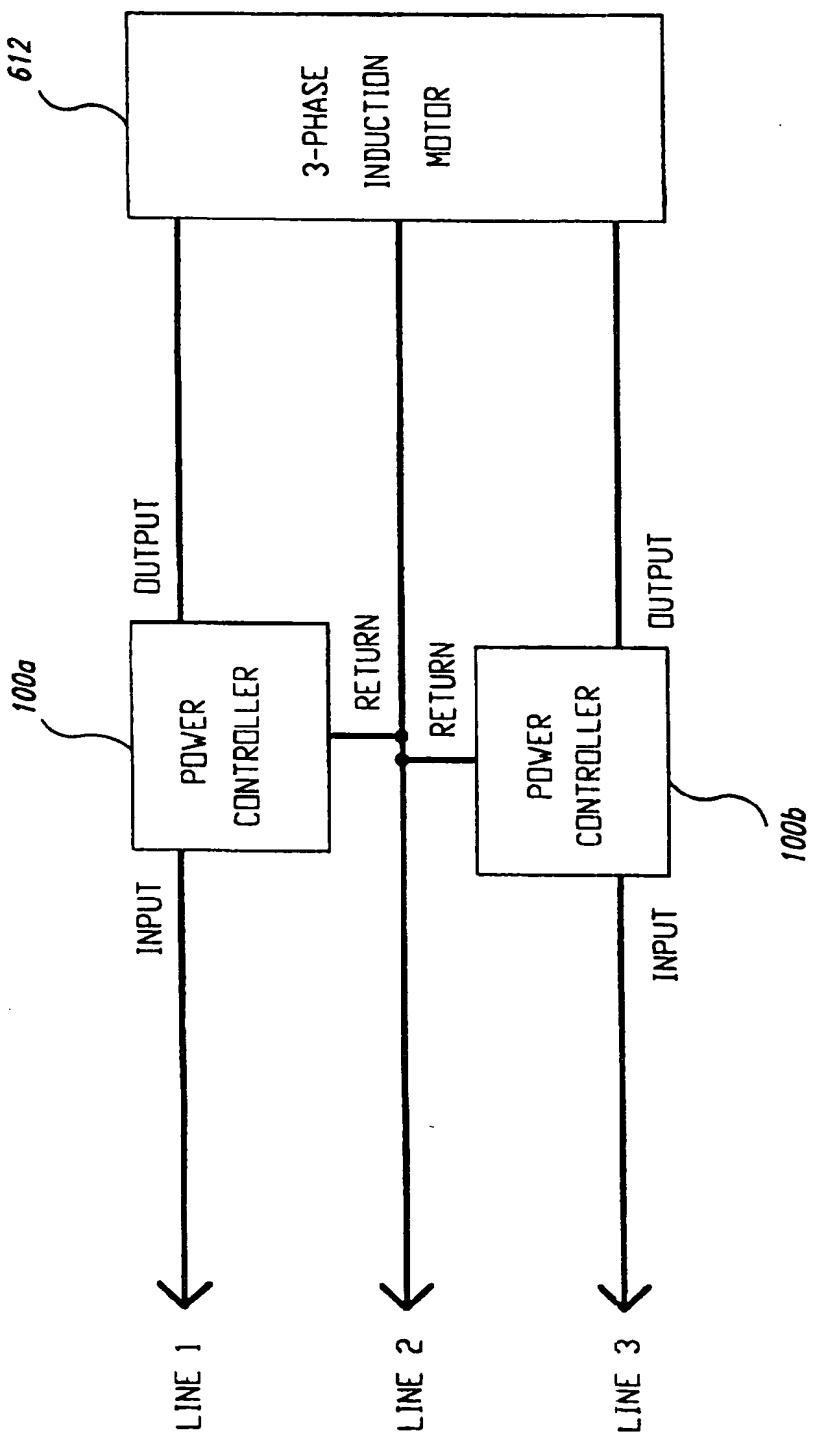


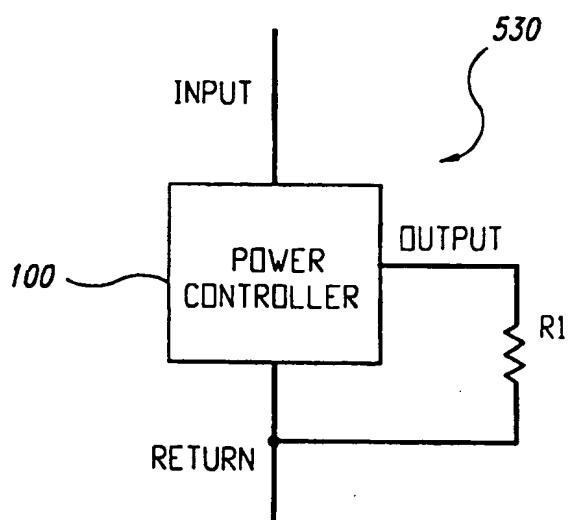
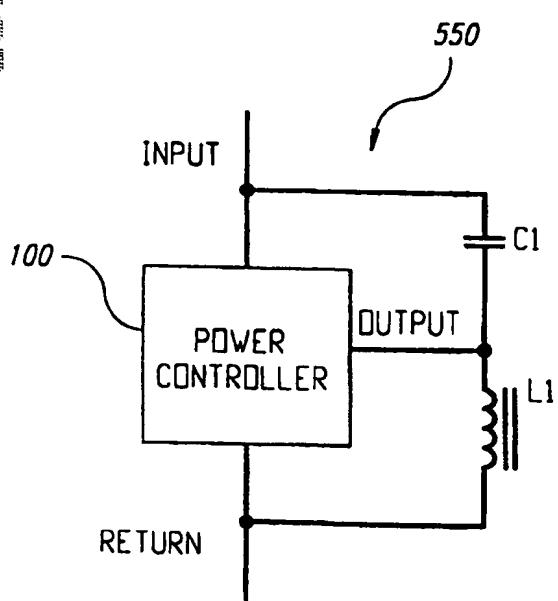
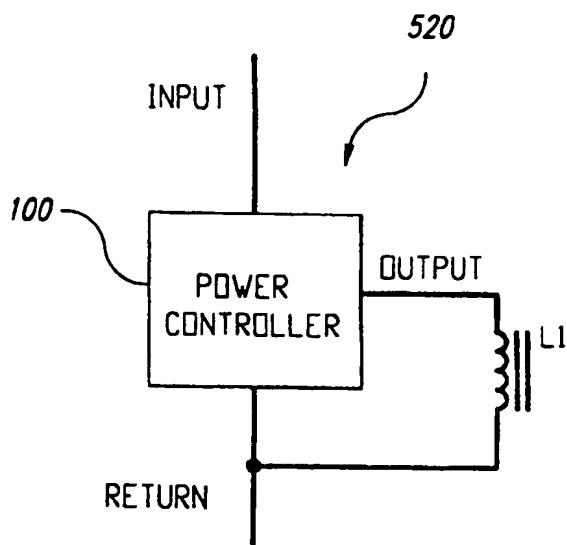
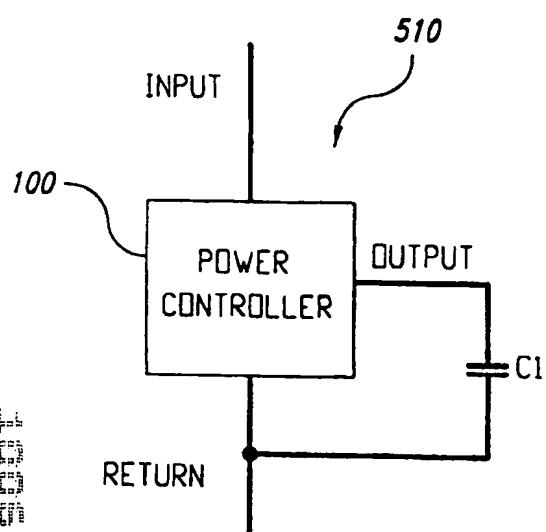
Fig. 10



*Fig. 11*



*Fig. 12*



700  
704  
702  
706

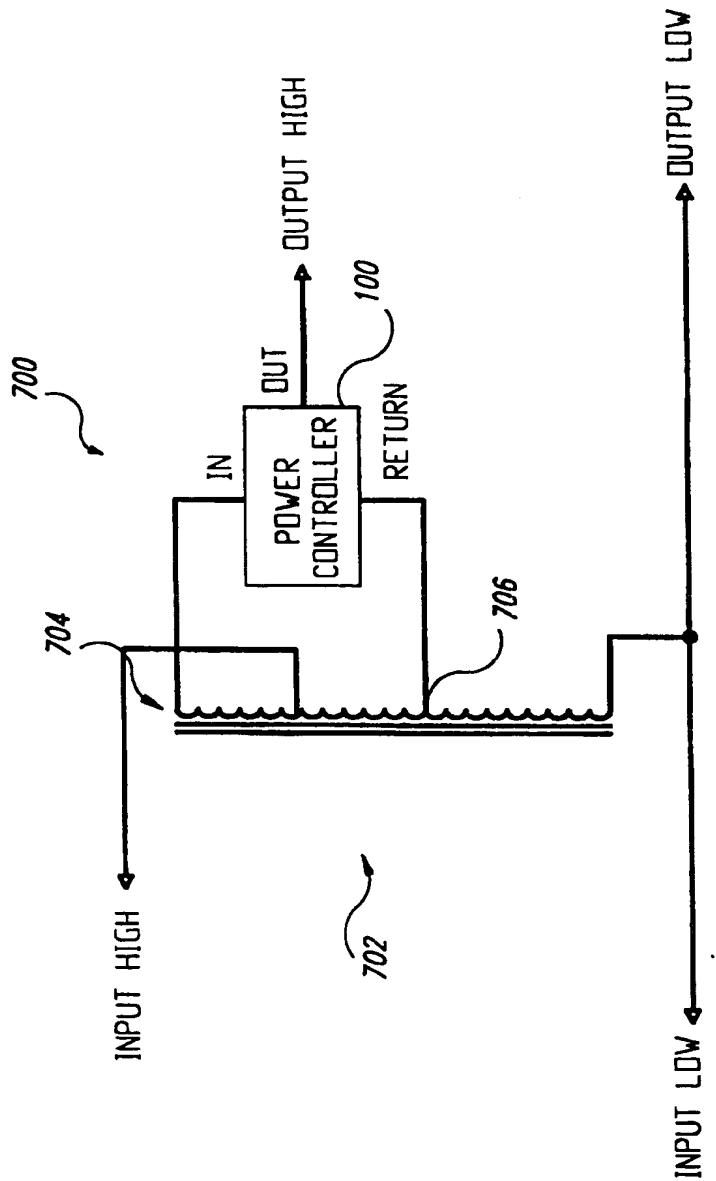


Fig. 17

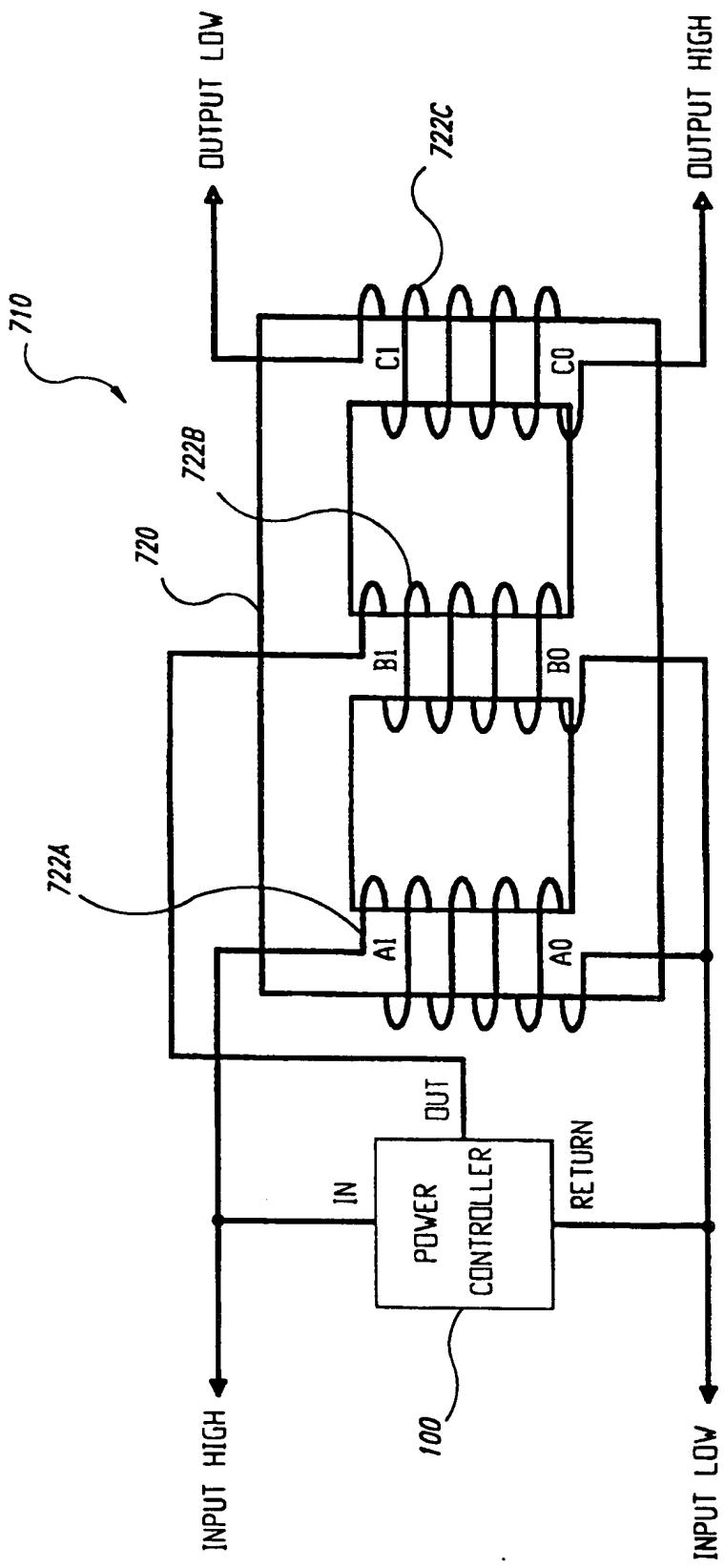
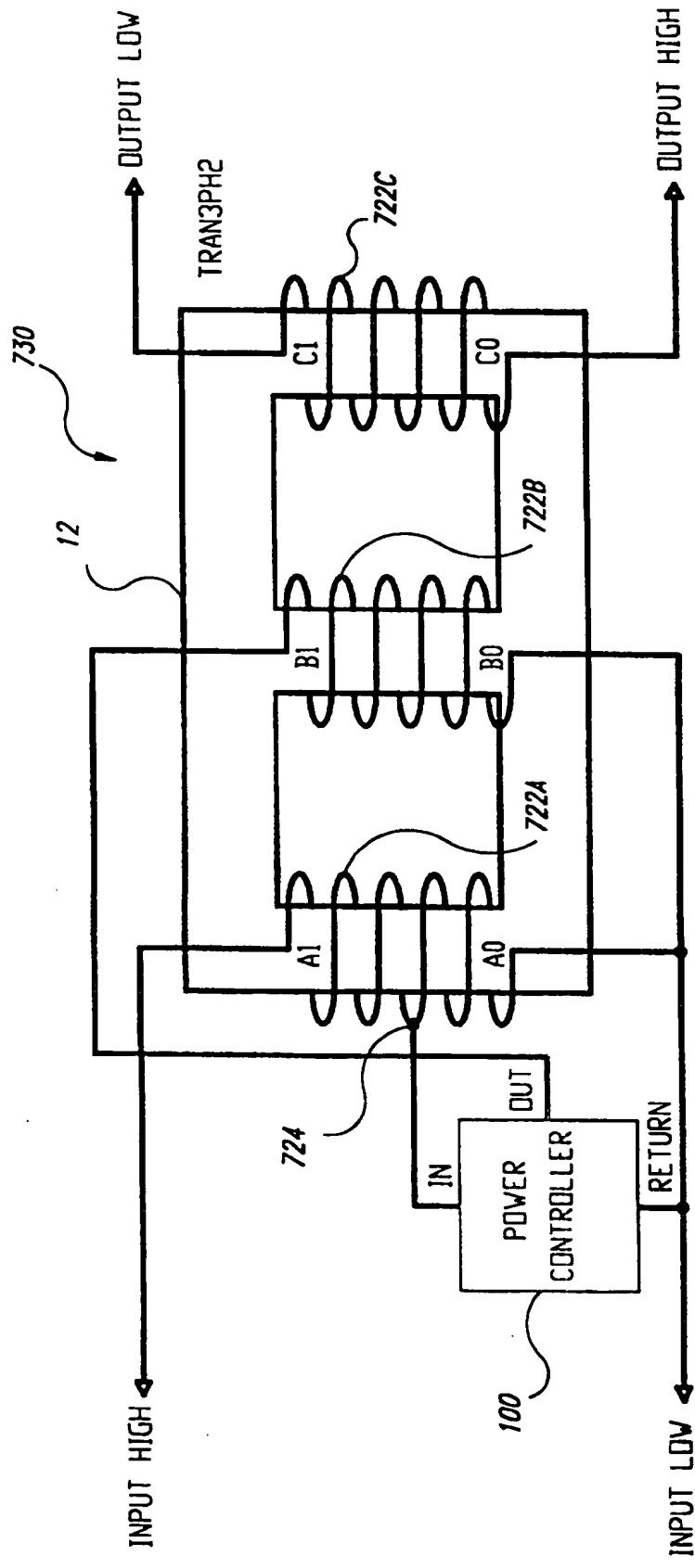
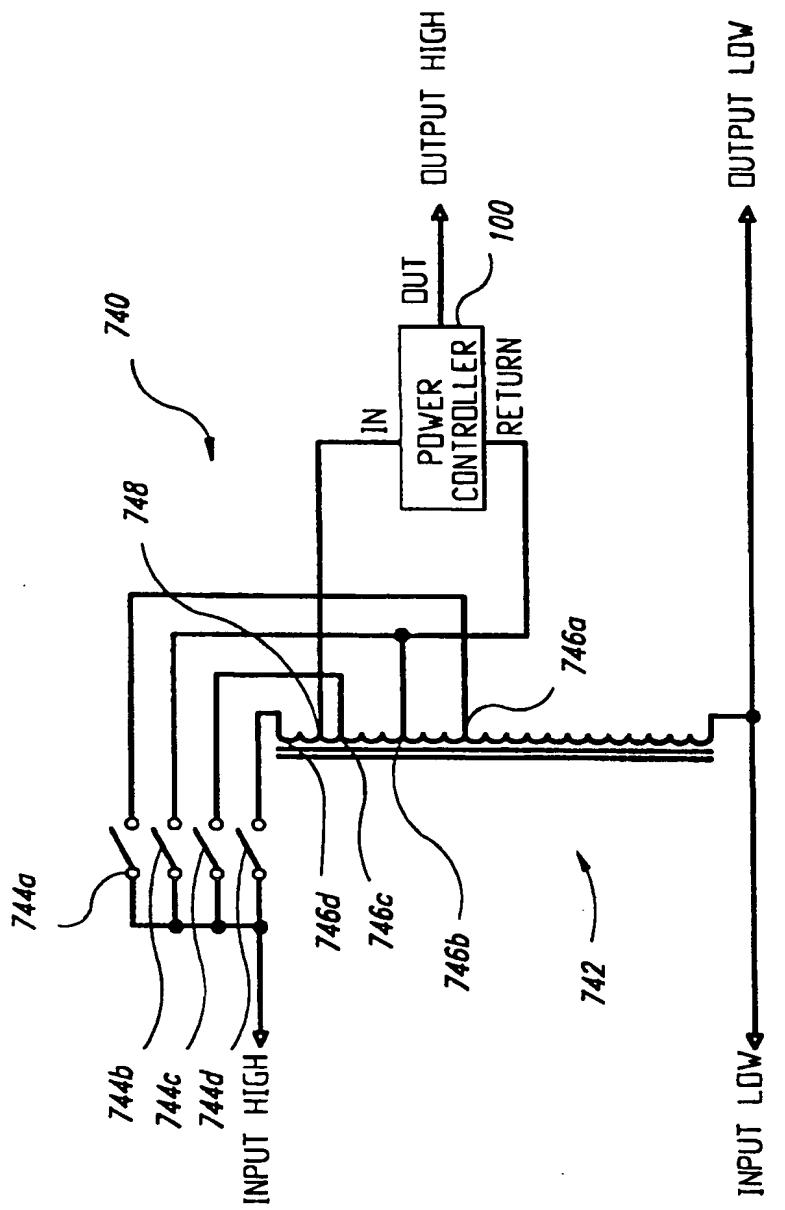


Fig. 18



*Fig. 19*



*Fig. 20*

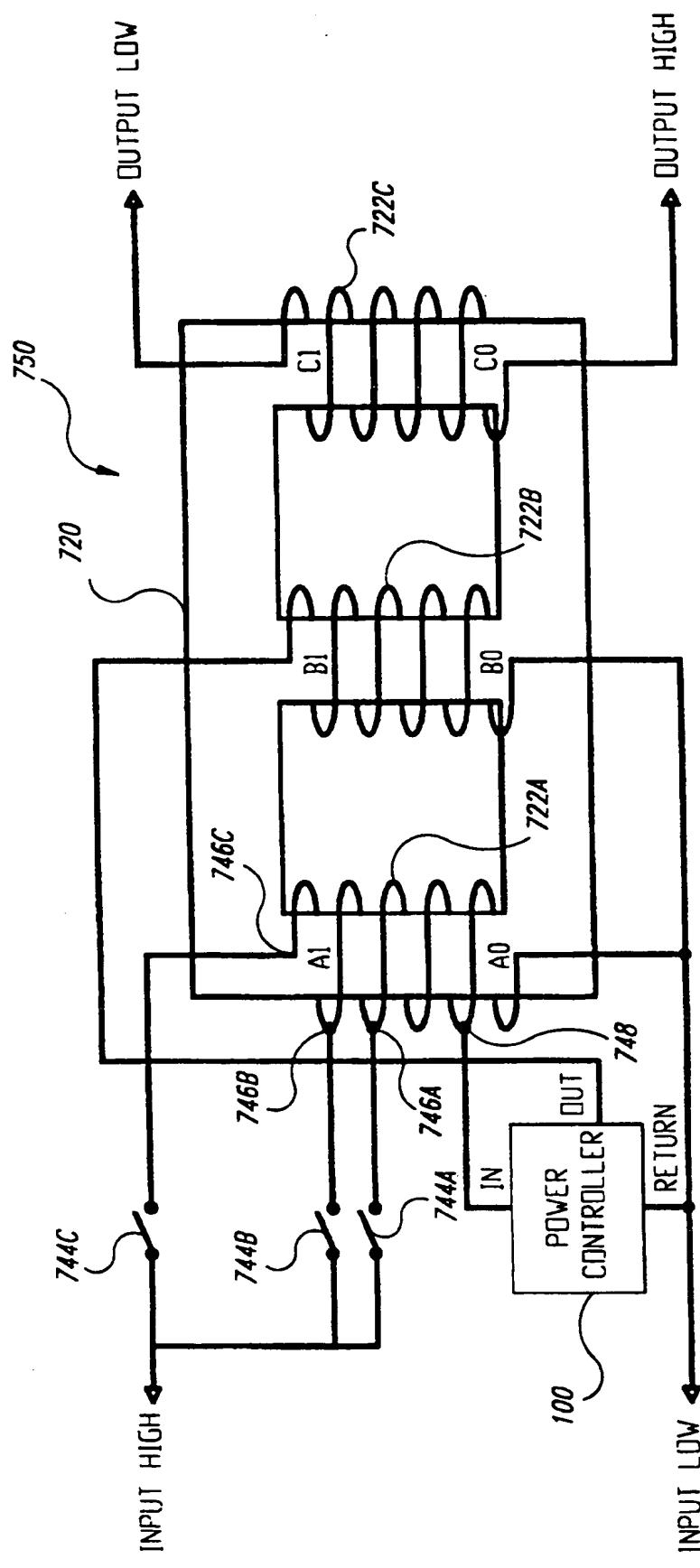


Fig. 21

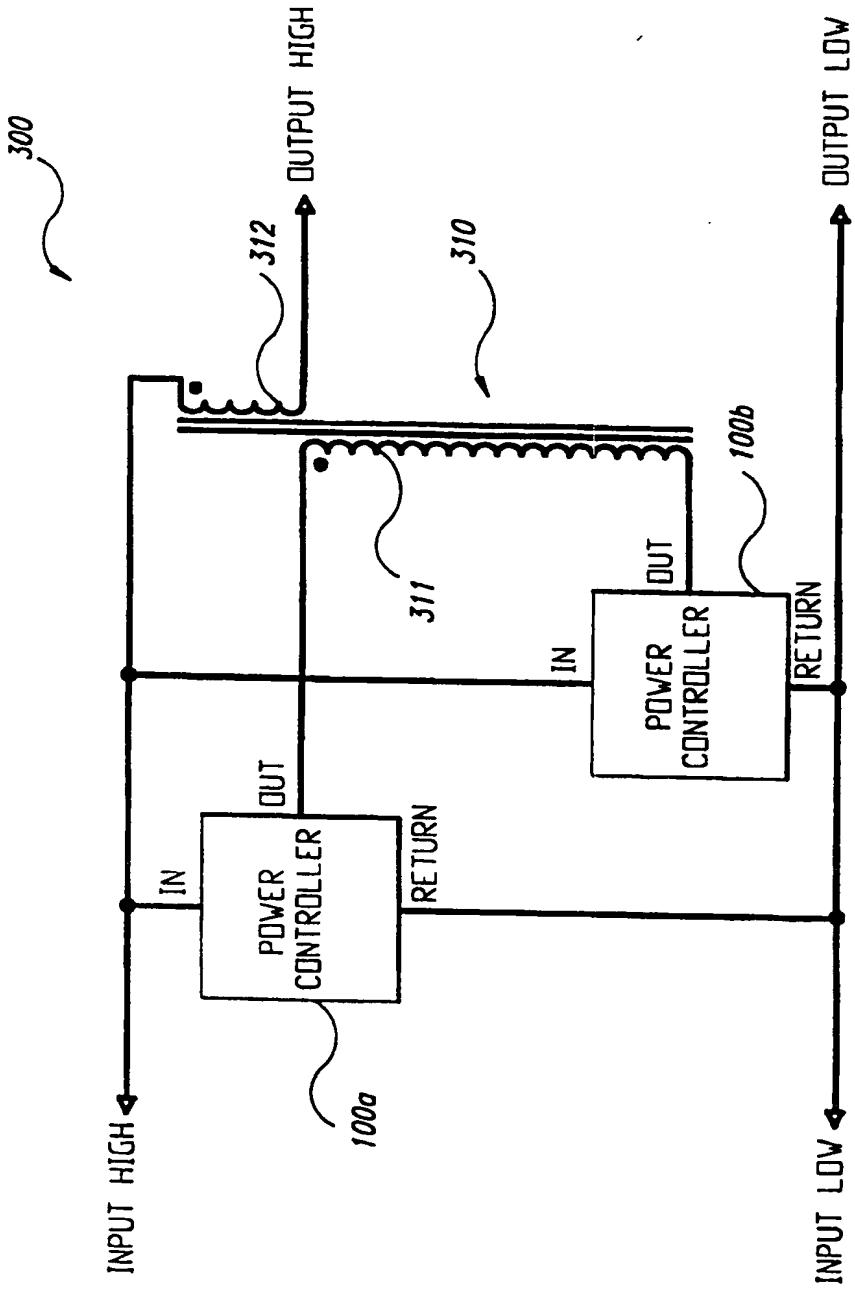


Fig. 22

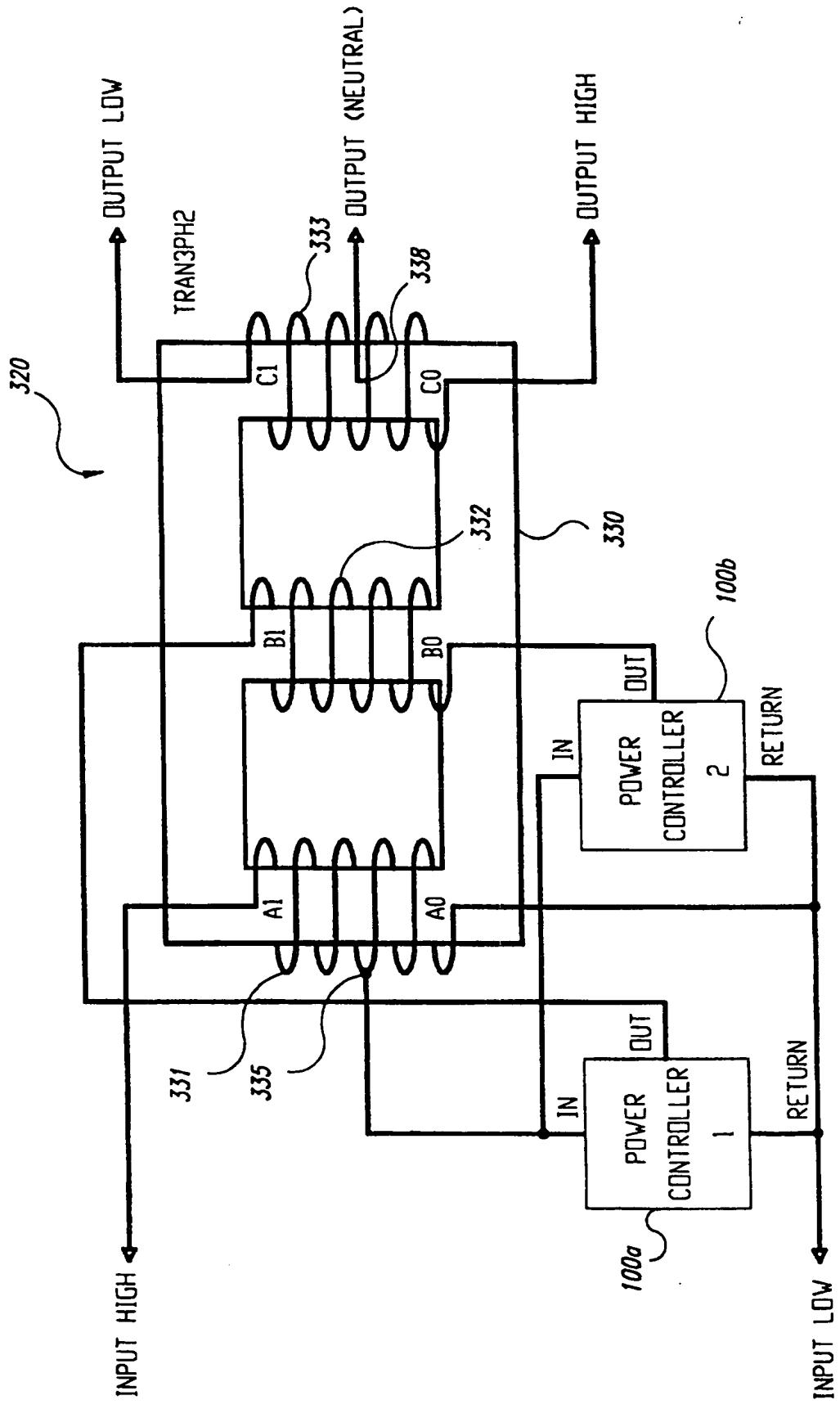


Fig. 23

100 400 420 450  
100 400 420 450  
100 400 420 450

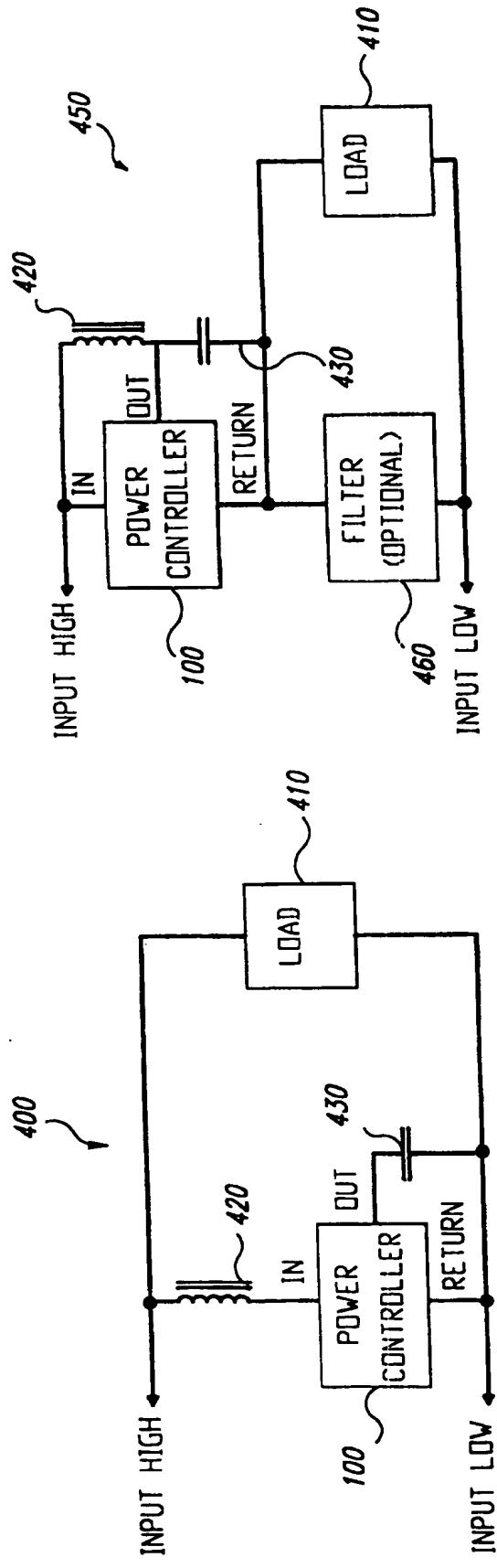


Fig. 24

Fig. 25

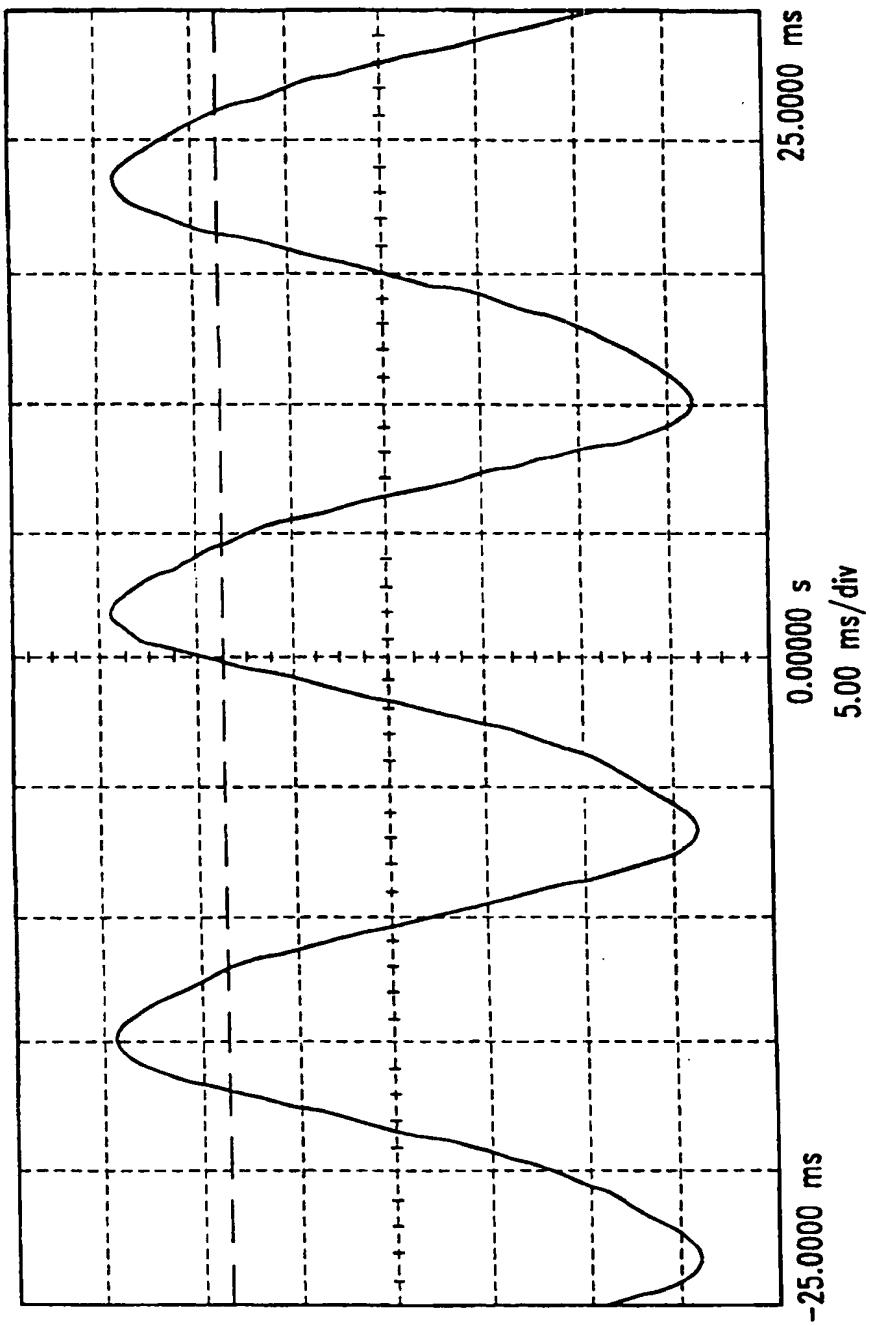


Fig. 26A

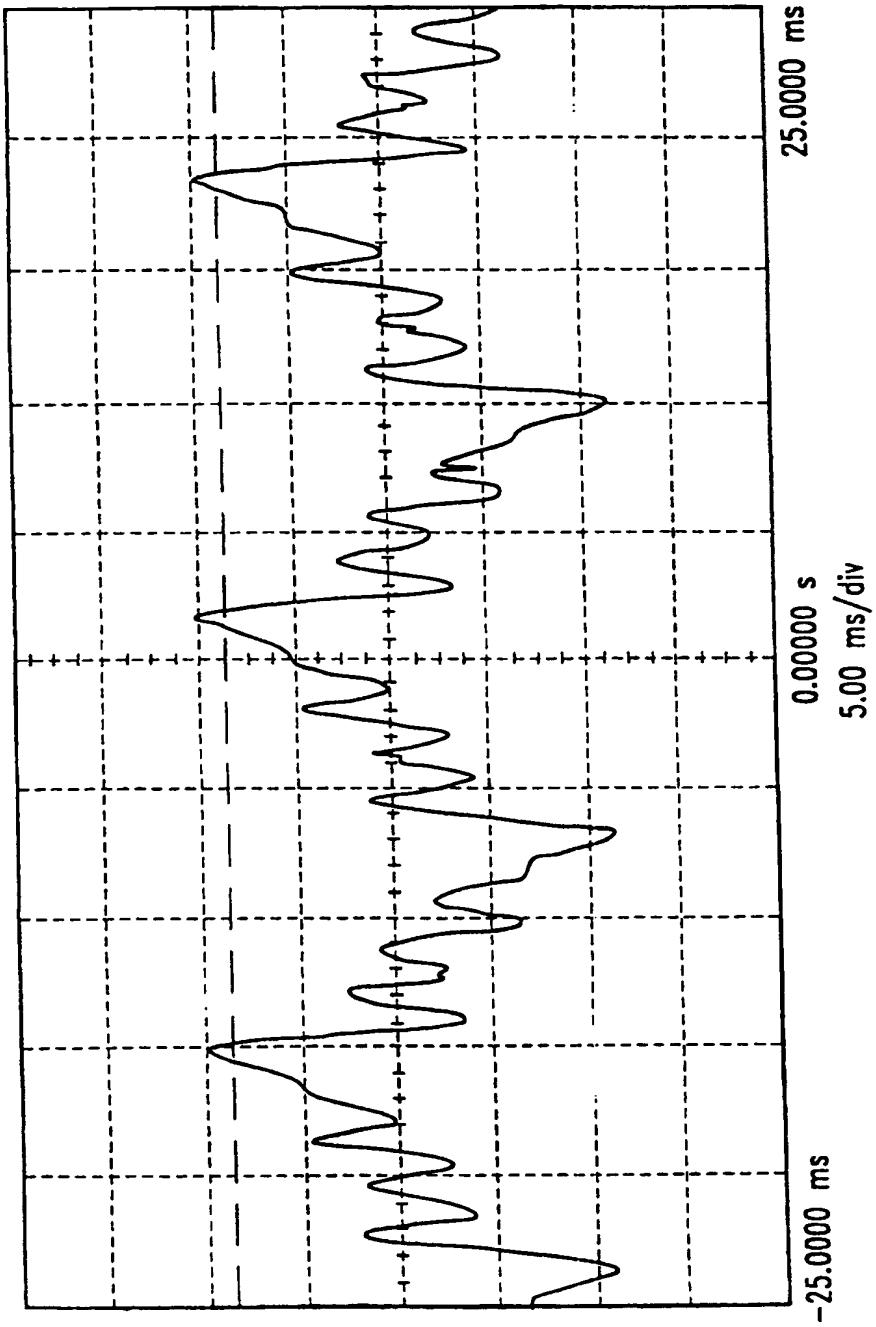


Fig. 26B

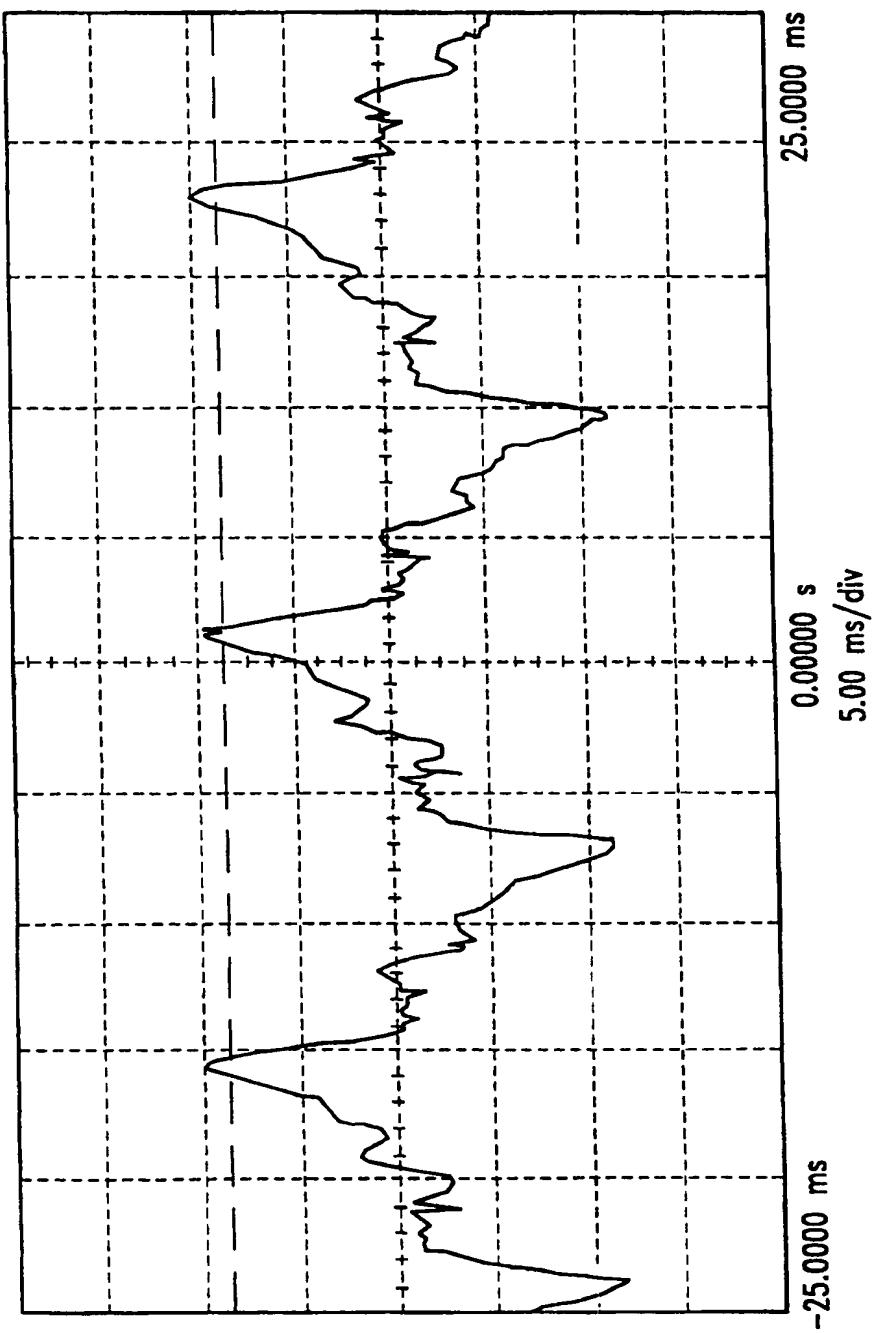


Fig. 26C

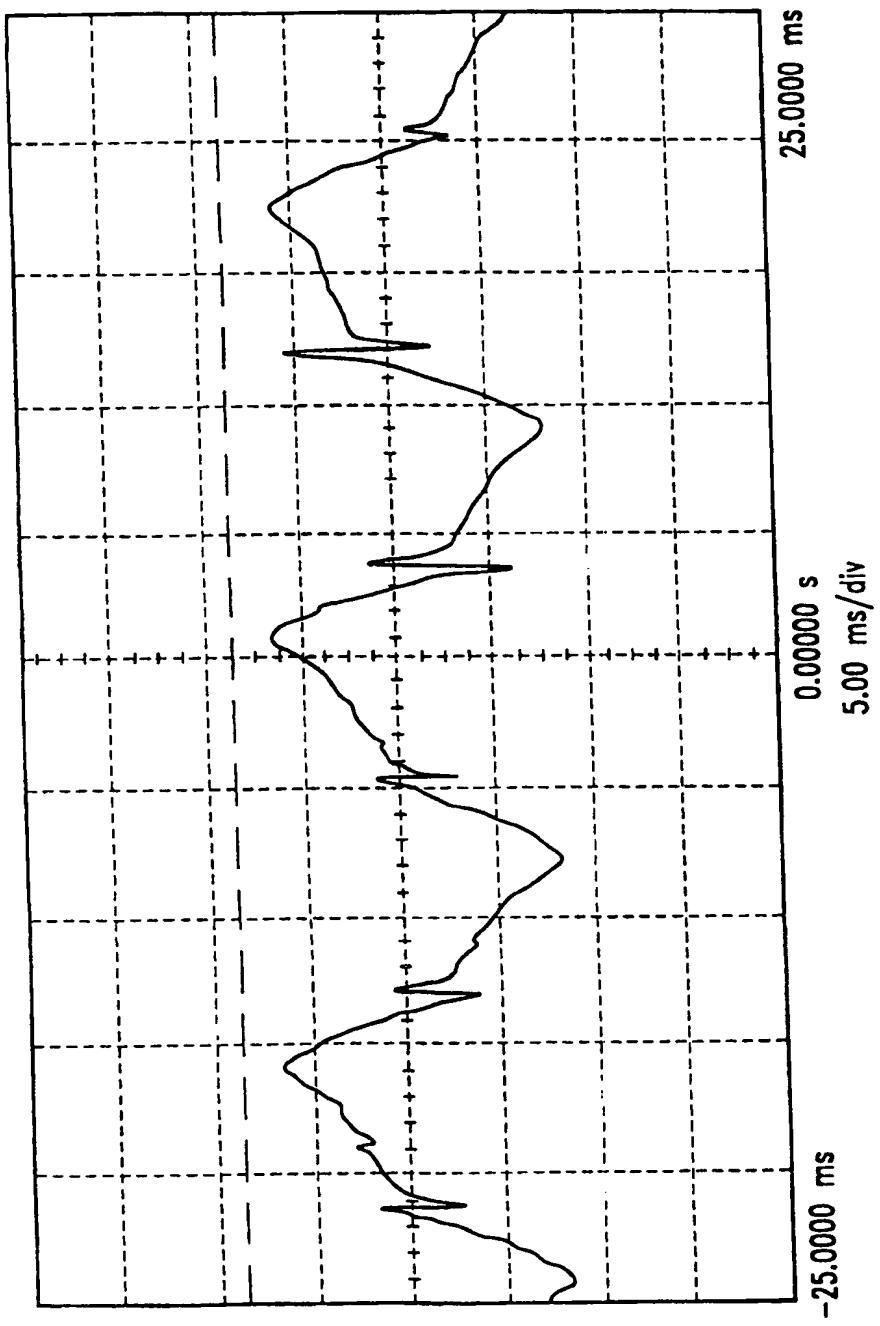


Fig. 26D

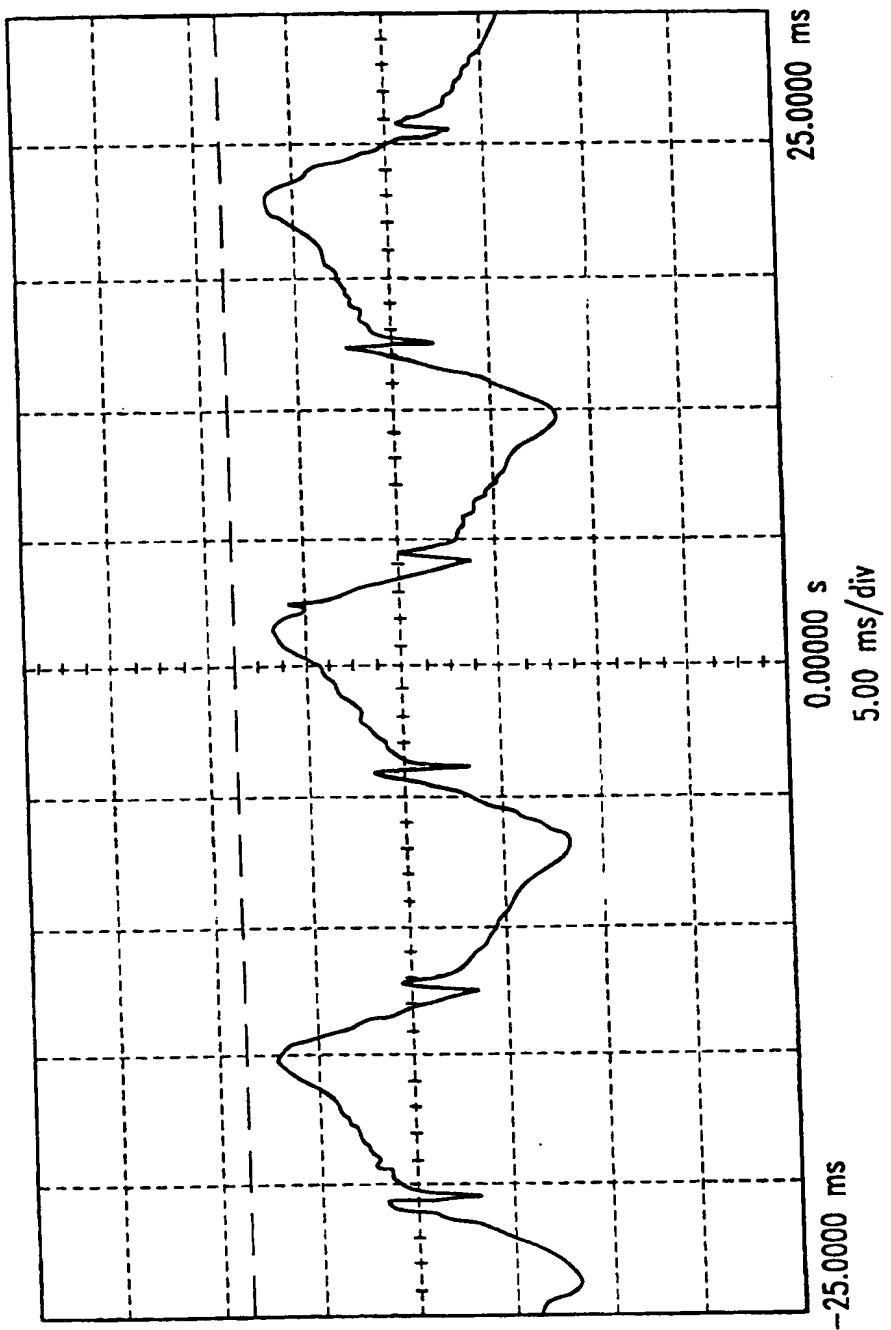


Fig. 26E

*Fig. 27*

120		Buck Mode MPC		Input		Output	
V AC rms	% of range	KW Eff	KVA Eff	KW	KVA	KW	KVA
		94.00%	4.9	0.97	3.8	4.7	4.7
120	100%	95.92%	4.6	4.8	4.4	4.4	1.85
108	90%	95.65%	4.6	4.8	4.4	4.4	1.85
96	80%	94.74%	3.8	3.9	4.2	3.6	1.85
84	70%	93.75%	3.2	3.3	4.7	3	1.9
72	60%	92.31%	2.6	2.7	5.5	2.4	1.9
60	50%	89.00%	2	2.2	6.5	1.78	1.95
48	40%	85.71%	1.47	1.65	8	1.26	2
36	30%	82.65%	0.98	1.21	8.1	0.81	2.2
24	20%	74.58%	0.59	0.9	13.2	0.44	1
12	10%	53.45%	0.29	0.72	0.4	15.8	0.155
0	0%	0.00%	0.1	0.66	0.15	16.7	0
<hr/>							
SCR		Input		Output			
V AC rms	% of range	KW Eff	KVA Eff	KW	KVA	FF	% THD-rmsA
		98.04%	5.1	5.1	12.4	5	0.99
120	100%	98.00%	4.7	5	0.94	27.9	4.9
108	90%	97.87%	3.9	4.7	0.84	42.5	3.8
96	80%	97.44%	3.2	4.3	0.73	52.7	3.1
84	70%	96.88%	2.6	4	0.63	60.3	2.5
72	60%	96.15%	2.6	3.6	0.54	66.4	1.8
60	50%	94.74%	1.9	3.2	0.43	72.1	1.3
48	40%	92.86%	1.4	2.8	0.34	77.5	0.9
36	30%	100.00%	0.9	2.8	0.34	77.5	2.7
24	20%	100.00%	0.5	2.2	0.24	84.2	0.5
12	10%			Unstable		0.22	84.4
0	0%						

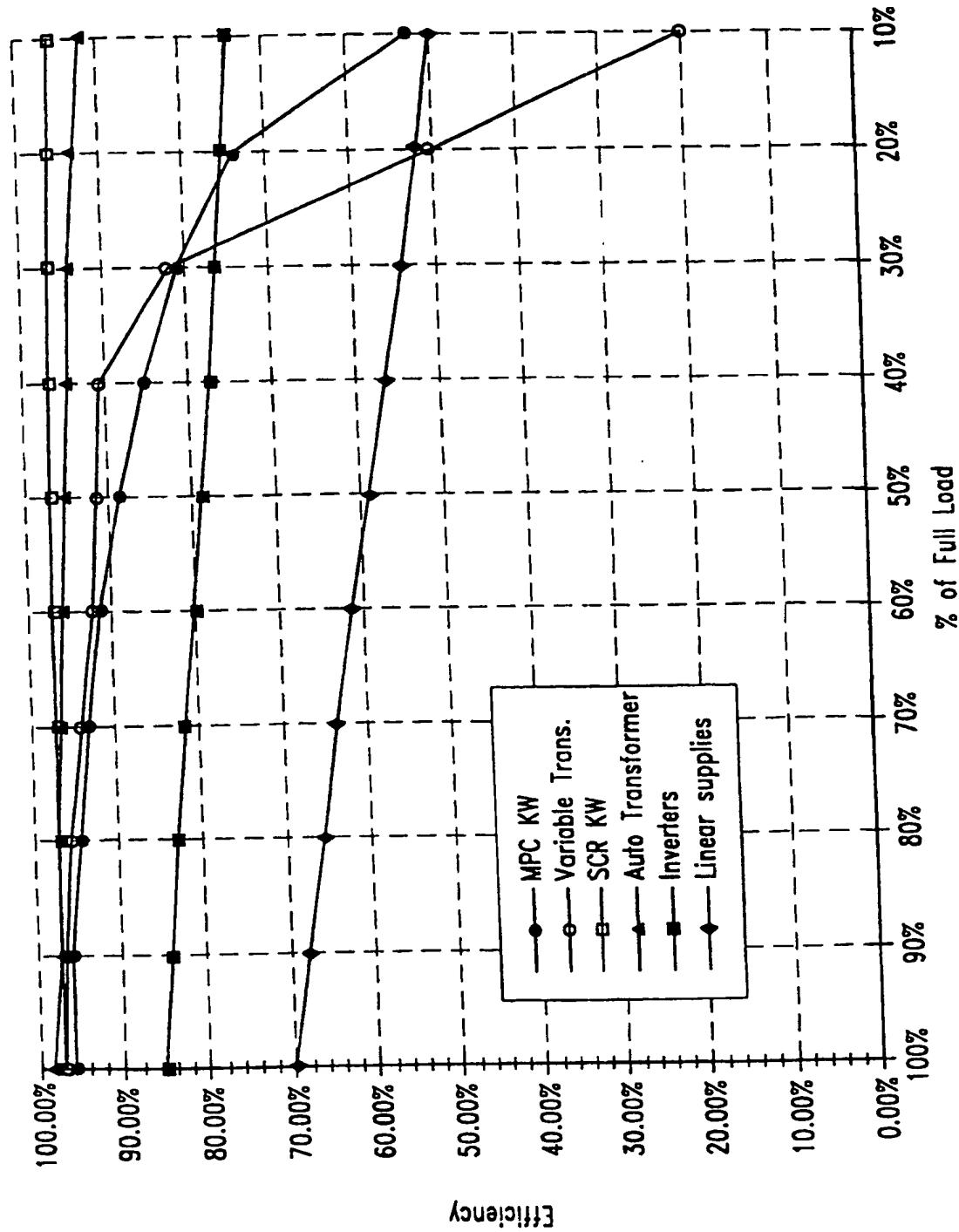


Fig. 28

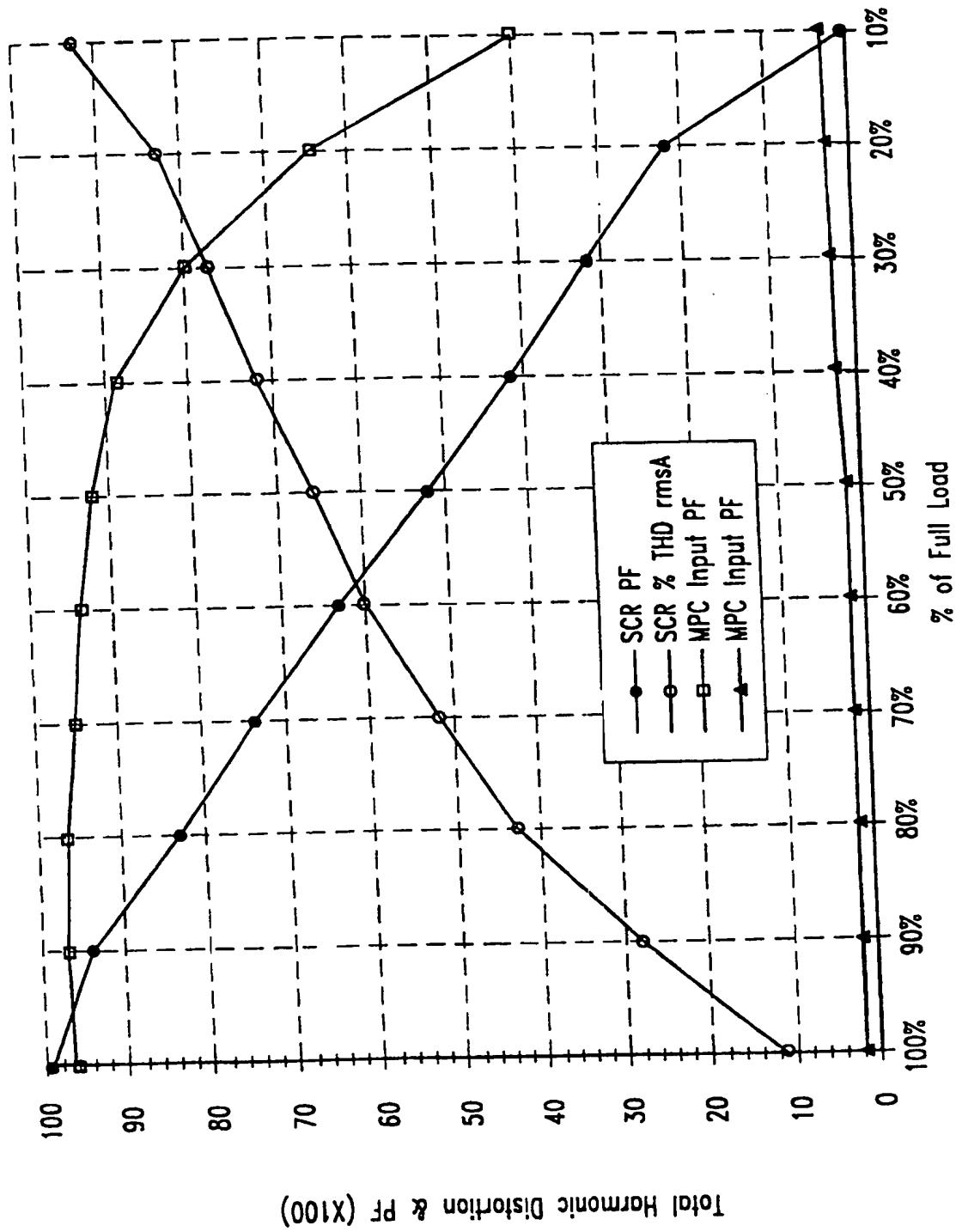


Fig. 29

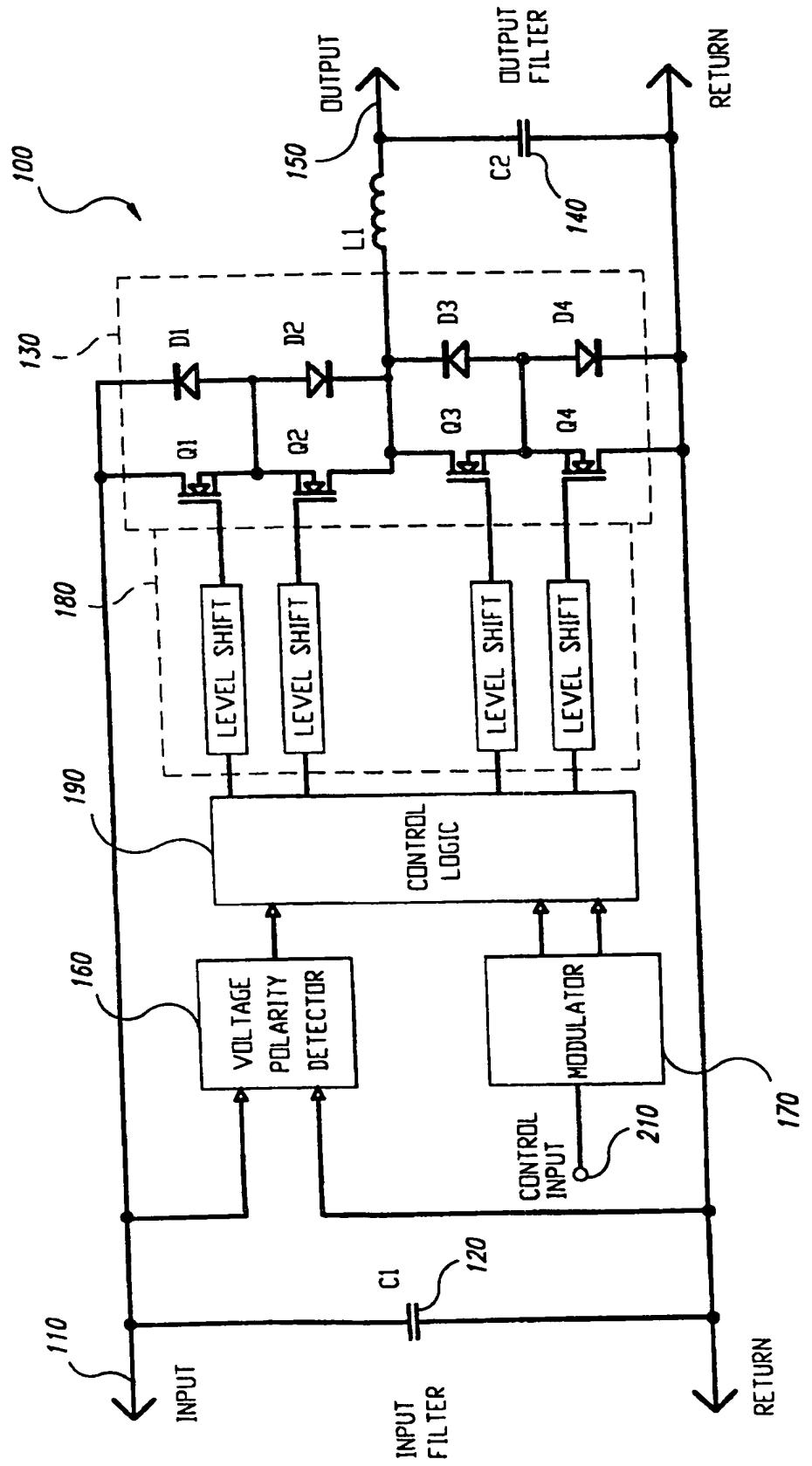


Fig. 30

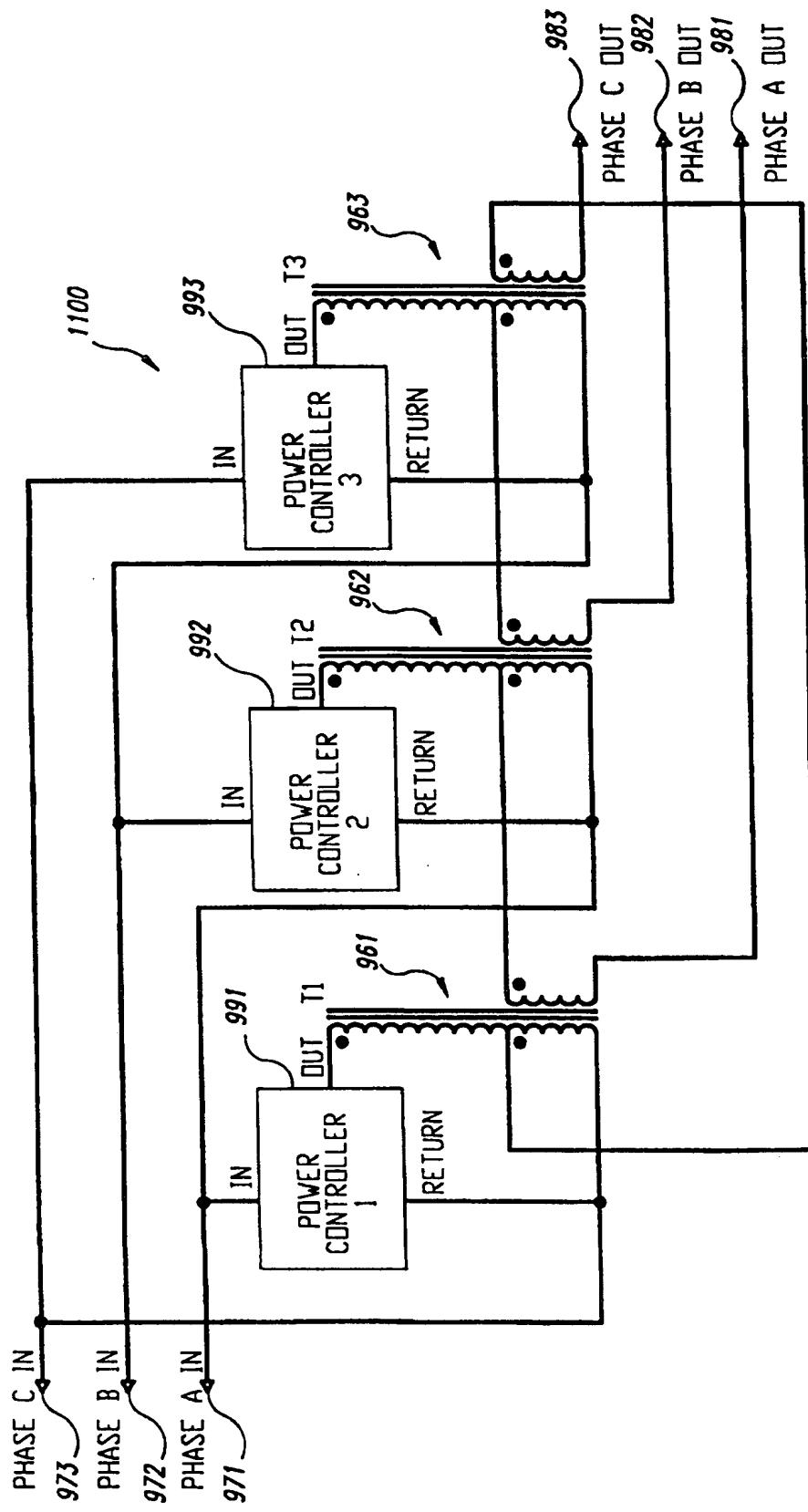


Fig. 31

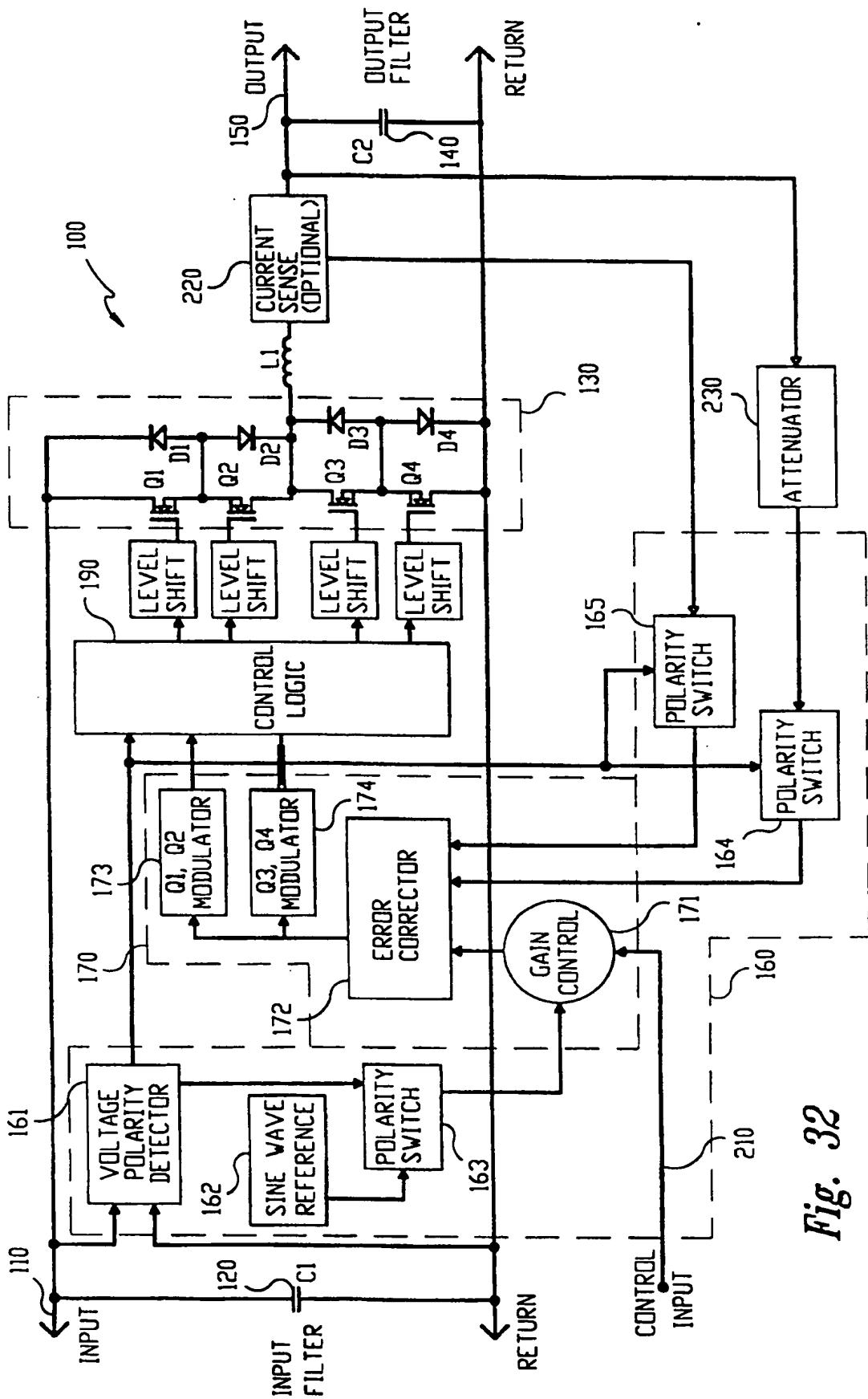
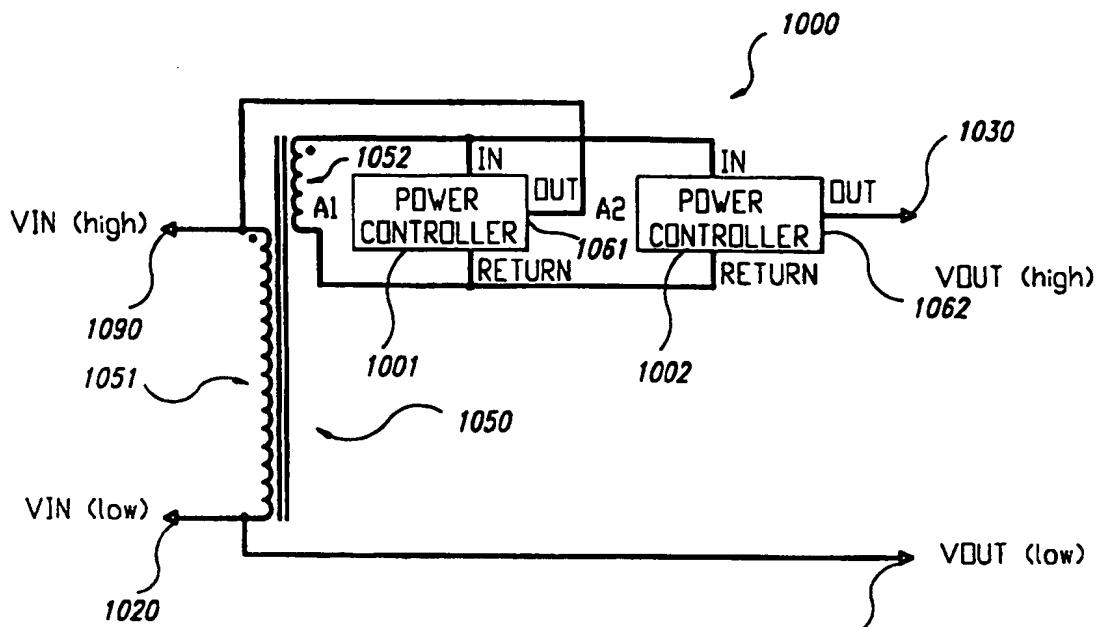
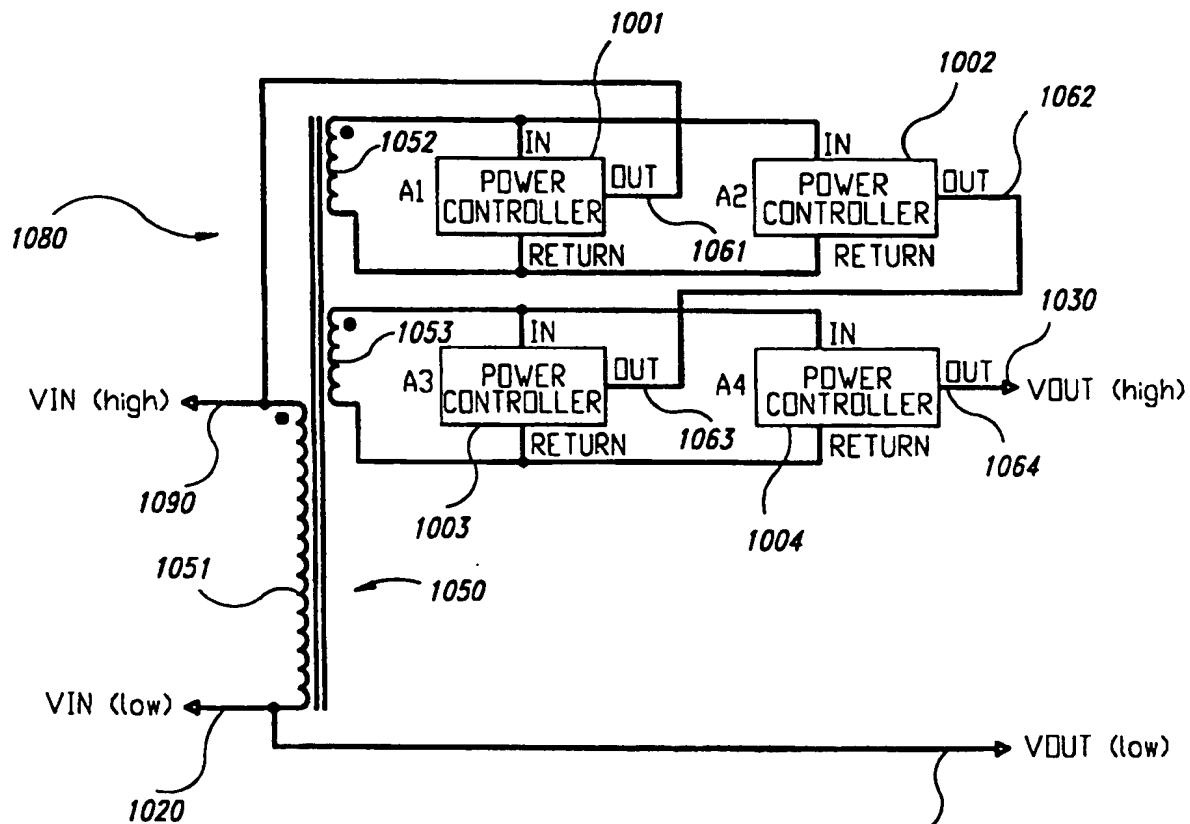


Fig. 32



*Fig. 33*



*Fig. 34*

